

### CLASSIFICATION & LABELLING

# Guidance on labelling and packaging in accordance with Regulation (EC) No 1272/2008

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### LEGAL NOTE:

This document aims to assist users in complying with their obligations under the CLP Regulation. However, users are reminded that the text of the CLP is the only authentic legal reference and that the information in this document does not constitute legal advice. Usage of the information remains under the sole responsibility of the user. The European Chemicals Agency does not accept any liability with regard to the use that may be made of the information contained in this document.

Version	Changes		
1.0 (originally unnumbered)	First edition		
	<ul> <li>First edition</li> <li>Full revision of the guidance addressing the content and structure. Main changes in the guidance document include the following: <ul> <li>Alignment with the 4<sup>th</sup> Adaptation to Technical Progress (ATP) to the CLP Regulation (Commission Regulation (EU) No 487/2013) bringing the CLP in line with the 4<sup>th</sup> revised edition of the UN Globally Harmonised System (GHS);</li> <li>Addressing the provisions of the 5<sup>th</sup> ATP to the CLP Regulation (Commission Regulation (EU) No 944/2013) amending precautionary statement P210 to fully align it with the changes arising from the 5<sup>th</sup> Revision of the UN GHS;</li> <li>Addition of new section 3.5.1 on child-resistant fastening (CRF) and tactile warnings of danger (TWD);</li> <li>Addition of new section 3.5.2 including information on additional safety measures for liquid laundry detergents in soluble capsules adopted by the Commission through Regulation (EU) No 1297/2014;</li> <li>Addition of new sections 4.2.1 and 4.2.2 clarifying the provisions of CLP Article 18(3) with regard to product identifiers for substances and mixtures;</li> <li>Re-organisation of information in section 4.3 by inclusion of new subsections 4.3.1, 4.3.2, 4.3.3;</li> <li>Addition of new section 4.3.4 describing the issue of blank pictograms;</li> <li>Re-organisation and clarification of information on supplemental labelling in section 4.8 by inclusion of new sub-sections 4.8.1 and 4.8.2;</li> </ul> </li> </ul>		
	<ul> <li>Inclusion of clarification on the issue of "readability" and "minimum letter size" in section 5.2;</li> </ul>		
	<ul> <li>Re-organisation and update of the text in section 5.3 to reflect the provisions of CLP Article 29 and points 1.5.1 and 1.5.2 of Annex I;</li> </ul>		

	<ul> <li>Inclusion of information on general and specific requirements for fold-out labels in section 5.3.1.1;</li> <li>Section 6: Update of the labels and the text in examples in line with the provisions of the 4<sup>th</sup> and 5<sup>th</sup> ATPs to CLP;</li> <li>Deletion of Example 6.6 (Single language label of a plant protection product for supply &amp; use in form of a fold-out booklet);</li> <li>Inclusion of new Example 6 (fold-out label for a mixture supplied to the general public);</li> <li>Addition of sub-section 6.1 separating the examples of labels on packagings that are small or difficult to label;</li> <li>Addition of a new section 6.1 describing labelling of two-component products;</li> <li>Clarification and extension of the text in section 7.2;</li> <li>Section 7.3: Update of the precautionary statements in selection tables according to the provisions of the 4<sup>th</sup> and 5<sup>th</sup> ATPs to CLP;</li> <li>Deletion of the outdated references to past deadlines and to the DSD and DPD provisions thorough the whole document;</li> </ul>
3.0	[tbd]

### Guidance on labelling and packaging in accordance with Regulation (EC) No 1272/2008

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### **Table of Contents**

PREAMBLE	7
1. INTRODUCTION	8
1.1 Who should read this document?	8
1.2 What is in this document?	8
2. GENERAL OVERVIEW	9
2.1 Legal background	9
2.2 Scope of labelling and packaging under the CLP Regulation	10
2.3 Timelines for classification, labelling, packaging and updating of CLP haza labels	
3. REQUIREMENTS OF LABELLING AND PACKAGING IN ACCORDANCE WITHE CLP REGULATION	
3.1 General labelling rules	13
3.2 Elements of the CLP hazard label	13
3.3 Location of information on the CLP hazard label	14
3.4 Differences between CLP and DSD/DPD labelling rules	15
3.5 CLP rules on packaging of substances and mixtures	17
3.5.1 Child-resistant fastening and tactile warnings of danger 3.5.2 Liquid consumer laundry detergents in soluble packaging for single use	
4. RULES FOR THE APPLICATION OF THE CLP LABEL ELEMENTS	
4.1 Contact details of the supplier	23
4.2 Product identifiers	-
4.2.1 Substances	
4.3 Hazard pictograms	
4.3.1 General information	26
4.3.2 Shape, colour and dimensions 4.3.3 Precedence rules	
4.3.4 Blank pictograms	
4.4 Signal words	30
4.5 Hazard statements	30
4.6 Precautionary statements	31
4.7 Codes for hazard and precautionary statements	32
4.8 Supplemental labelling information	
4.8.1 Obligatory supplemental labelling information 4.8.2 Non-obligatory supplemental labelling information	33
5. GUIDANCE ON PARTICULAR ASPECTS OF CLP HAZARD LABELLING	

5.1 Further aspects to consider for the CLP hazard label	40
5.2 Size of the label and of the label elements	41
5.3 Exemptions from the labelling and packaging requirements 5.3.1 Use of fold-out labels, tie-on tags and outer packaging 5.3.2 Omission of certain label elements	43
5.4 Interaction between the CLP and the transport labelling rules 5.4.1 Specific rules for labelling of outer packaging, inner packaging and single packaging 5.4.2 Packaging used for consolidation of supply packaging during transport	50
6. EXAMPLE LABELS	54
Example 1: Single language label for a substance (not for the general public).	
Example 2: Multi-language label for a substance containing non-obligatory supplemental information (not for the general public)	55
Example 3: Single language label for a mixture containing both obligatory and non-obligatory supplemental information (supplied to the general public)	
Example 4: Single language label for a substance containing supplemental hazard statements (not for the general public)	59
Example 5: Multi-language label for a mixture containing both obligatory and non-obligatory supplemental information (supplied to the general public)	59
Example 6: Fold-out label for a mixture (supplied to the general public)	62
6.1 Packaging that is small or difficult to label Example 7: Substance in a 8 ml bottle (not for the general public) Example 8: Hazardous solid substance in a 100 ml bottle (not intended for the gener public) Example 9: Supply and transport label for a single package (not intended for the general public)	64 ral 67
Example 10: Labelling for a mixture that is transported on land in outer and inner packaging (not intended for the general public) Example 11: Labelling for a mixture that is transported on land in single packaging (not intended for the general public)	71
6.2 Specific case: labelling of two-component products	74
7. GUIDANCE ON THE SELECTION OF PRECAUTIONARY STATEMENTS FOR THE CLP HAZARD LABEL	
7.1 Introduction	75
7.2 Methodology	76
7.3 Selection tables 7.3.1 General precautionary statements 7.3.2 Specific precautionary statements for physical hazards 7.3.3 Specific precautionary statements for health hazards 7.3.4 Specific precautionary statements for environmental hazards 7.3.5 Additional hazards	81 82 134 179
7.4. Examples for the selection of precautionary statements for the label Example A. Substance X assigned a physical and various health hazard classification	.183 1s

**APPENDIX: GLOSSARY OF SELECTED TERMS USED IN THIS GUIDANCE** .....192

### **Table of Figures**

Figure 1: Timelines for classification and labelling in accordance with CLP a DSD/DPD.	
Figure 2: Comparison of certain important label elements under CLP and DSD	16
Figure 3. Blackened out empty diamonds	29
Figure 4: Readability	42
Figure 5: Decision flowchart for the application of CLP and transport labelling single packaging (left) and combination packaging (right)	

### **Table of Tables**

Table 1: CLP labelling requirements versus discretion of the supplier
Table 2: The hazard classifications that trigger the CLP provisions for child-resistant fastenings and/or tactile warnings20
Table 3: Substances that directly trigger the CLP provisions for child-resistantfastenings and/or tactile warnings when they are contained in other substances orin mixtures at or above the denoted concentration21
Table 4: Code ranges of hazard and precautionary statements under CLP
Table 5: Obligatory supplemental labelling information pursuant to CLP Articles 25and 3235
Table 6: Minimum dimensions of labels and pictograms under CLP
Table 7: Labelling exemptions for packages of a capacity of 125 ml or less 48

### Preamble

1 This document describes specific provisions for labelling and packaging of chemical 2 substances and mixtures under Titles III and IV of the Regulation (EC) No 3 1272/2008<sup>1</sup> (CLP Regulation or CLP). The aim of this document is to assist 4 manufacturers, importers, downstream users and distributors of substances and 5 mixtures in the effective application of the CLP Regulation.

6 This guidance includes relevant amendments from the 2<sup>nd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 8<sup>th</sup> 7 Adaptation to Technical Progress (ATP) to the CLP Regulation, as well as the 8 changes brought about by the ATP to CLP related to labelling and packaging of 9 liquid laundry detergents in a soluble packaging for single use (Regulation (EU) No 10 1297/2014).

- 11 All current ECHA guidance documents can be obtained via the website of ECHA
- 12 (<u>http://echa.europa.eu/support/guidance</u>).
- 13

<sup>&</sup>lt;sup>1</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; OJ L 353 31.12.2008, p. 1 (<u>http://eur-lex.europa.eu/legal-content/en/TXT/?uri=CELEX%3A02008R1272-20150601</u>)

### 1 **1. Introduction**

### 2 **1.1 Who should read this document?**

- 3 This document is relevant for suppliers of chemical substances and mixtures, namely for:
  - manufacturers and importers of substances;
  - importers of mixtures;
  - downstream users of substances and mixtures, including formulators;
    - distributors of substances and mixtures, including retailers.

8 All suppliers must ensure that their substances and mixtures are labelled and packaged in 9 accordance with the provisions of the CLP Regulation or CLP) before they are placed on the 10 EU market.

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### 12 **1.2 What is in this document?**

13 This document provides guidance on the labelling and packaging requirements set out in the 14 CLP Regulation. The guidance opens in section 2 with a general overview, including legal 15 background and scope of the CLP Regulation. That section also includes information about 16 timelines for classification, labelling, packaging and updating of CLP labels. The guidance 17 continues in section 3 and 4 with an explanation of requirements for labelling and packaging 18 and rules for the application of the CLP label elements. Section 5 provides the guidance on 19 particular aspects of CLP hazard labelling (e.g. exemption from certain labelling and 20 packaging requirements, interaction between CLP and transport labelling rules, labelling 21 requirements for specific cases of unique packaging). Finally, sections 6 and 7 of the 22 guidance provide practical examples illustrating different situations that may be 23 encountered when designing labels.

- 24 In particular, this guidance aims to clarify:
- what aspects to consider when estimating **the label size** needed;
- what types of **supplemental information** are possible, and where to place this information on the label (<u>sub-section 4.8</u> of this guidance);
- the conditions for **small packaging exemptions**;
- the interaction between **CLP and the transport labelling rules**;
- the technical requirements for liquid laundry detergents in a soluble packaging for single use;
- how to select the most appropriate set of **precautionary statements** for the label;
- how to structure the information on the label for appropriate readability.

For specific information on application of the CLP criteria for physical, health and environmental hazards the reader is advised to consult the *Guidance on the application of the CLP criteria*. For a general overview of basic features and procedures laid down in the CLP Regulation it might be useful to consult the *Introductory Guidance on the CLP Regulation*. Both the above-mentioned guidance documents are available at

39 <u>http://echa.europa.eu/web/guest/guidance-documents/guidance-on-clp</u>.

### 1 2. General overview

### 2 2.1 Legal background

3 CLP is the EU Regulation on classification, labelling and packaging of substances 4 and mixtures. It is based on the United Nations Globally Harmonized System of 5 Classification and Labelling of chemicals (UN GHS). CLP entered into force on 20 6 January 2009 in the European Union and is now legally binding also in the 7 countries of the European Economic Area (EEA) (Norway, Iceland and 8 Liechtenstein)<sup>2</sup>. CLP has fully replaced the provisions of the Dangerous 9 Substances Directive 67/548/EEC (DSD) and the Dangerous Preparations 10 Directive 1999/45/EC (DPD) as of 1 June 2015 (see sub-section 2.3 of this 11 guidance for the applicability of the transitional period). The CLP Regulation is 12 directly applicable to suppliers in the EU who manufacture, import, use or 13 distribute chemical substances and mixtures.

CLP includes several new aspects to the labelling and packaging of substances
 and mixtures. This guidance explains the labelling and packaging rules of CLP and
 illustrates with some examples how labels could be laid out.

17 In general, the CLP label must display the label elements which are taken over 18 from UN GHS, i.e. the new pictograms, signal word, hazard and precautionary 19 statements, to reflect the assigned classification of a substance or mixture. At the 20 same time, CLP retains some of the labelling concepts of DSD and DPD, such as 21 the small packaging exemptions. In order to accommodate certain hazard 22 information not yet covered by the UN GHS, as well as further label elements 23 which are required by other EU legislation, CLP introduces the concept of 24 "supplemental information" for the label.

A substance or mixture classified as hazardous and contained in packaging must
 bear a hazard label in accordance with the rules in Title III of CLP (*Hazard communication in the form of labelling*).

28 Another key tool used for hazard communication is the safety data sheet (SDS).

29 The required SDS format and content are defined in Article 31 and Annex II<sup>3</sup> to

Regulation (EC) No 1907/2006 (REACH). These have been adapted to align them
 with the UN GHS, as well as to be fully in line with the CLP Regulation.

- 32 For further information on the compilation of the SDS, please consult the
- 33 Guidance on the compilation of safety data sheets
- 34 (http://echa.europa.eu/guidance-documents/guidance-on-reach).
- 35

<sup>&</sup>lt;sup>2</sup> The CLP Regulation was incorporated in the EEA Agreement by Decision of the EEA Joint Committee No 106/2012 of 15 June 2012 amending Annex II (Technical regulations, standards, testing and certification) to the EEA Agreement (OJ L 309, 8.11.2012, p. 6–6).

<sup>&</sup>lt;sup>3</sup> Commission Regulations No 453/2010 and No 2015/830 have amended the REACH Regulation by replacing Annex II to REACH with the annexes to these regulations, to align the requirements for safety data sheets with the rules for safety data sheets of the UN GHS, see: <u>http://www.unece.org/trans/danger/publi/ghs/ghs\_welcome\_e.html</u>.

#### 2.2 Scope of labelling and packaging under the CLP 1 Regulation 2

3 In general, substances and mixtures that are placed on the market are supplied 4 in packaging with the necessary labelling information. A substance or mixture has 5 to be labelled according to the CLP rules where

- the substance or mixture is classified as hazardous;
- 6 7
- the mixture, even if not classified as hazardous, is addressed in Article • 8 25(6) of CLP. In this case the supplemental label elements as set out in part 2 of Annex II must be indicated together with the product identifier,
- 9 10

name and telephone number of the supplier.

11 In addition, an explosive article (i.e. an article containing one or more explosive 12 substances or mixtures) which meets the criteria as described in section 2.1 of 13 Annex I to CLP must be labelled according to the CLP rules.

14 Substances and mixtures within the scope of Regulation (EC) No 1107/2009<sup>4</sup> 15 (Plant Protection Products Regulation or PPPR) or Regulation (EU) No 528/2012 16 (Biocidal Products Regulation or BPR) have to carry CLP labelling elements as 17 appropriate; substances and mixtures within the scope of the PPPR also need to 18 display the supplemental statement EUH401 (To avoid risks to human health and 19 the environment, comply with the instructions for use), see CLP Article 25 (2). On 20 the other hand, the labelling provisions of these acts remain fully applicable to 21 any product within their scope, see Recital 47 of the CLP Regulation. For example, there are separate provisions for updating labels for such substances and 22 23 mixtures in these acts, and their suppliers must apply these provisions instead of 24 the CLP rules, see also CLP Article 30 (3). Another deviation from CLP is that 25 different rules apply as to which information may be presented in the form of a 26 leaflet as an alternative way to accommodate the required labelling information 27 (sub-section 5.3.1.1 of this guidance).

28 The CLP Regulation also includes exemptions from labelling and packaging 29 requirements, for example for packaging that is so small, or in such a shape that 30 it is impossible to meet the general rules for the application of labels (sub-section 31 5.3.1 of this guidance). In addition, CLP allows suppliers to omit certain label 32 elements (<u>sub-section 5.3.2</u> of this guidance).

33 Certain substances and mixtures may also be supplied to the general public 34 without packaging, in which case a copy of the label elements is required to 35 accompany the substance or mixture, for example on an invoice. Currently, this 36 only applies to ready mixed cement and concrete in the wet state (sub-section 37 5.3.2.4 of this guidance).

38 Finally, CLP defines derogations from the CLP labelling requirements for special

- 39 cases and the conditions under which these derogations apply, for example
- 40 transportable gas cylinders. In relation to the aforementioned cases, please
- 41 consult Article 23 and section 1.3 of Annex I to CLP, as further guidance on these 42
- is not provided in this document.

<sup>&</sup>lt;sup>4</sup> Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market repeals Council Directives 79/117/EEC and 91/414/EEC with effect from 14 June 2011. However, Article 80 of Regulation (EC) No 1107/2009 specifies that Directive 91/414/EEC must continue to apply with respect to active substances included in Annex I to that Directive for certain transitional periods.

#### 2.3 Timelines for classification, labelling, packaging and 1 updating of CLP hazard labels 2

3 The CLP Regulation was introduced gradually before its full application as of 1

- 4 June 2015. During this transitional period some of the rules of CLP and the
- 5 previous legislation (DSD and DPD) were applicable in parallel to give companies

time to migrate to the CLP rules. However, companies were allowed to apply CLP 6

- 7 in full on a voluntary basis, from its entry into force.
- 8 For substances, it has been obligatory to classify, label and package according to
- 9 the CLP Regulation since 1 December 2010. The same obligations have applied
- 10 for mixtures since 1 June 2015.

Therefore, from 1 June 2015 both substances and mixtures must be classified, labelled and packaged according to CLP only. This classification must be provided in the SDS for substances and mixtures. There is no longer a requirement to provide either DSD classifications of substances themselves or of component substances in mixtures or the DPD classifications for mixtures in the SDS. Only the corresponding information according to CLP need be provided (see also the Guidance on the compilation of safety data sheets).

### 11

#### 12 Limited derogation for re-labelling and re-packaging

13 In the situation where a mixture was already classified, labelled and packaged in 14 accordance with the DPD rules and placed on the market before 1 June 2015, the 15 manufacturer, importer, downstream user or distributor may postpone its re-16 labelling and re-packaging to comply with the CLP rules until 1 June 2017 at the 17 latest. This means that the mixture can be sold further in the supply chain with 18 the DPD label until 1 June 2017 (see Article 61 (4) of CLP). The mixtures 19 prepared before 1 June 2015 and stored in a formulator's warehouse after 1 June 20 2015 can also benefit from this arrangement provided they are already labelled 21 and packaged according to the DPD rules<sup>5</sup>. This concerns also mixtures that are 22 either on the shelves of a warehouse or a shop or in the stocks of a manufacturer 23 or importer<sup>6</sup>. There needs to be proof that the products were already packaged 24 and labelled on 1 June 2015 for the transitional provision to apply. This could be 25 done by providing evidence that the mixture had been manufactured ("physically 26 existing"), had passed a manufacturer's quality control system (was "cleared for 27 sale"), was labelled and was made available for a third party e.g. in the 28 warehouse. This could also include e.g. an offer for sale through an

29 advertisement on a website.

30 It should be noted that when a mixture is re-filled into another package on its

31 way through the supply chain and the respective supplier (re-filler) changes the

32 composition of the mixture in the course of his industrial and professional activity,

33 he must classify the mixture according to the CLP requirements and no longer use 34 the DPD labelling.

<sup>&</sup>lt;sup>5</sup> The derogation regarding safety data sheets is explained in the *Guidance on the* compilation of safety data sheets available at http://echa.europa.eu/quidancedocuments/quidance-on-reach

<sup>&</sup>lt;sup>6</sup> Please note that imports are exempted from CLP while they fall within the scope of Article 1(2)(b). See also CLP FAQ ID=250 at <u>http://echa.europa.eu/support/gas-support/gas</u>.

- 1 In the case of e.g. re-filling or re-labelling without change of the composition or
- 2 change of label language, the re-filler or re-labeller may use the classification
- 3 from their supplier and use the same label (in practice there will be physical re-
- 4 labelling but with the same hazard label or labelling information as the
- 5 formulator's).
- 6 An overview of the relevant timelines for classification and labelling is provided in
- 7 Figure 1 below.

	Legislation	From 1 June 2015
Substances	Directive 67/548/EEC (DSD)	No longer applicable (i.e. not allowed)
Subst	Regulation EC No 1272/2008 (CLP)	Classification, packaging and labelling required
Mixtures	Directive 1999/45/EC (DPD)	Not applicable (with the exception of the 2017 derogation)
	Regulation EC No 1272/2008 (CLP)	Classification required Labelling and packaging required unless the 2017 derogation applies

8

# 9 Figure 1: Timelines for classification and labelling in accordance with CLP10 and DSD/DPD.

11 Following any changes to the classification and labelling where the revised

12 classification is more severe or where new supplemental label elements are

13 required, CLP Article 30 requires a supplier to update this information on the label 14 without undue delay, i.e. as soon as reasonably practicable.

15 Where labelling changes other than those described above are required (e.g. 16 where the revised classification will be less severe or the contact details of the

supplier have changed) the supplier has 18 months to update the label.

18 Where a new or updated harmonised classification arises from an Adaptation to 19 Technical Progress (ATP) to the CLP Regulation, the ATP provides the date of 20 applicability.

Further label changes to be implemented within 18 months would also include the update of labelling information for certain mixtures for which special rules for supplemental labelling in accordance with Part 2 of Approx II to CLP apply

23 supplemental labelling in accordance with Part 2 of Annex II to CLP apply.

24 However, there are separate provisions for updating labels in the Biocidal

25 Products Regulation (BPR) and the Plant Protection Products Regulation (PPPR)

and suppliers of substances or mixtures within the scope of these acts must apply

- these provisions.
- 28

### **3. Requirements of labelling and packaging in**

2 accordance with the CLP Regulation

### 3 3.1 General labelling rules

4 General and specific rules regarding the content and application of a CLP label are 5 set out in CLP Article 31.

6 CLP requires that the labels are firmly affixed to one or more surfaces of the
7 immediate container of the substance or mixture and that they must be readable
8 horizontally when the package is set down normally. The label elements
9 themselves, in particular the hazard pictograms, must stand out clearly from the
10 background. Furthermore, all label elements must be of such size and spacing as
11 to be easily read. They must be clearly and indelibly marked. A physical label is
12 not required when the label elements are shown clearly on the packaging itself.

### 13 3.2 Elements of the CLP hazard label

According to CLP Article 17, a substance and mixture classified as hazardous mustbear a label including the following elements:

- Name, address and telephone number of the supplier(s);
- The nominal quantity of the substance or mixture in the package where
   this is being made available to the general public, unless this quantity is
   specified elsewhere on the package;
- Product identifiers;
- Hazard pictograms, where applicable;
- The relevant signal word, where applicable;
- Hazard statements, where applicable;
- Appropriate precautionary statements where applicable;
- A section for supplemental information, where applicable.
- It should be noted that for particular label elements precedence rules apply.
  These rules are further explained in the sections below.
- CLP requires the label to be written in the official language or languages of the Member States where the substance or mixture is placed on the market, unless the Member State concerned provides otherwise<sup>7</sup>.
   Suppliers may accomplish this either by producing multi-language labels covering the official languages of several of the countries where the substance or mixture is supplied, or by producing separate labels for each country, each with the appropriate language or languages.

Suppliers may use more languages than those required on their labels if they wish, provided that the same details appear in all languages. However, this should not impact the legibility of the obligatory labelling information nor can it trigger exemptions from the labelling requirements, (<u>sub-section 5.3.1</u> of this guidance).

<sup>&</sup>lt;sup>7</sup> Please consult the table "Languages required for labels and safety data sheets" which is available on the ECHA website web at: <u>http://echa.europa.eu/regulations/clp/labelling</u>.

### **3.3 Location of information on the CLP hazard label**

2 CLP Article 32 provides some limited rules that define the location of information

3 on the label. However, further details as to how label elements are arranged are

4 left to the discretion of the person responsible for compiling the label. As a

5 general rule, the information should be structured in a way that is easy to read

6 and understand. Examples are outlined in Table 1 below:

### 7 **Table 1: CLP labelling requirements versus discretion of the supplier**

CLP requirement (Article 32)	Example of decision left to the discretion of the supplier
The hazard pictograms, signal word, hazard statements and precautionary statements must be kept together on the label.	The supplier is free to choose the arrangement of the pictograms.
Hazard statements must be grouped together on the label.	The supplier may choose the order of the hazard statements. The supplier may choose whether these groups are to be presented on the left, on the right or elsewhere on the label.
Precautionary statements must be grouped together on the label.	The supplier may choose the order of the precautionary statements, but should ensure that they are grouped with the hazard statements.
	The supplier may choose whether these groups are to be presented on the left, on the right or elsewhere on the label.
In case more than one language is used on the label, the hazard and precautionary statements of the same language must be grouped together on the label.	Where the supplier needs to use alternative means to meet the requirements of CLP Article 31 in relation to the language(s) required in a particular Member State, he may choose whether to accomplish this using fold-out labels, tie-on tags or on an outer packaging, in accordance with section 1.5.1 of Annex I
Any supplemental information as referred to in CLP Article 25 must be included in the section for supplemental labelling and placed alongside the label elements referred to in CLP Article $17(1)(a)-(g)$ .	The supplier may choose how to visibly separate this section from the section containing the label elements referred to in CLP Article $17(1)(a)$ -(g). He may also decide to place this information in more than one location on the label.
The label elements must be easily readable (Article 31(3)).	It is recommended to keep full sentences together and in one line, if possible. The font size and spacing must be large enough and in relation to the dimensions of the label.

### **3.4 Differences between CLP and DSD/DPD labelling rules**

2 There is more required information on the CLP label compared to the DSD/DPD 3 regime, and this requires more space on the label.

- 4 One reason for this is that additional pictograms are required under CLP,
- 5 compared to DSD/DPD, also some H- and P- statements are longer. Similarly, the
- 6 new additional statements that apply under certain conditions: 'x % of the
- 7 mixture consists of component(s) of unknown acute toxicity' and/or 'Contains x %
- 8 of components with unknown hazards to the aquatic environment' consume
- 9 additional space.
- 10 Where mixtures have to be classified on the basis of the calculation methods,
- 11 lower generic concentration limits trigger additional classification and labelling 12 compared to DSD/DPD, which means that further hazard and precautionary 13 statements must be put on the label.
- 14 In contrast to DSD/DPD, combined hazard statements that would condense the 15 message and save label space are limited in CLP to Acute Toxicity only (see <u>sub-</u>
- 16 <u>section 4.5</u> of this guidance).
- 17 CLP allows the omission of certain H-statements according to the principles of18 precedence given in Annex III, Part 1 (hazard statements).
- CLP also includes more precautionary statements compared to the number ofsafety phrases used under DSD/DPD.
- On the other hand, less prescriptive selection rules under CLP compared to DSD
  make it more difficult to stay within the maximum number of six precautionary
  statements on the label as intended by CLP (<u>sub-section 4.6</u> and <u>section 7</u> of this
  guidance).
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For illustration purposes, **Figure 2** on the next page shows a comparison of certain important label elements under CLP and DSD. **Figure 2** is not intended to be a label that complies with the provisions of the CLP Regulation, but is meant to present a rough overview of applicable label elements only.

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The example in **Figure 2** shows that under CLP optimum use of the available

- 35 space on the label may be a greater challenge than was the case under the
- 36 DSD/DPD labelling regime.

<sup>&</sup>lt;sup>8</sup> Not more than six P-statements should appear on the label unless necessary (CLP Article 28 (3)).

### **3.5 CLP rules on packaging of substances and mixtures**

- 2 Before continuing to describe in more detail the CLP requirements for packaging
- 3 the reader should be introduced to the three CLP definitions:

Article 2 (35): '**package**' means the complete product of the packing operation, consisting of the packaging and its contents;

### 4

Article 2 (36): '**packaging**' means one or more receptacles and any other components or materials necessary for the receptacles to perform their containment and other safety functions;

### 5

Article 2 (37): '*intermediate packaging*' means packaging placed between inner packaging, or articles, and outer packaging;

### 6

7 CLP Article 35 includes the requirements for packaging containing hazardous8 substances or mixtures. These provisions are to ensure that:

- the packaging is designed, constructed and fastened so that the contents cannot escape;
- the materials of the packaging and fastening are not damaged by the
   contents and are not liable to form hazardous compounds with the
   contents;
- the packaging and fastenings are strong and solid throughout to ensure that they will not loosen;
- packaging fitted with replaceable fastening devices is properly designed to allow repeated refastening without the contents escaping;
- the packaging does not attract or arouse the curiosity of children or
   mislead the consumer when supplied to the general public;
- the packaging does not have a similar presentation or a design used for
   foodstuff or animal feed stuff or medicinal or cosmetic products which
   would mislead the consumers.

Packaging that meets the requirements of the transport legislation is deemed to comply with the requirements set out in the bullet points above. (Note however that fulfilling the conditions in the above bullet points alone is usually not enough to comply with the requirements of the transport legislation).

- For substances and mixtures to be supplied to the general public, CLP sets out rules for:
- the use of child-resistant fastening (also referred to as child-resistant closure), see <u>sub-section 3.5.1</u> of this guidance;
- the use of tactile warnings of danger (TWD), see <u>sub-section 3.5.1</u> of this guidance;

 liquid consumer laundry detergents in soluble packaging for single use, (<u>sub-section 3.5.2</u> of this guidance).

The first two provisions are triggered by either a specific hazard class/category or by the concentration of specific substances contained in other substances or in mixtures, see

- 7 **Table 2** and **Table 3** of this guidance document.
- 8

1

2

### 9 **3.5.1** Child-resistant fastening and tactile warnings of danger

10 The provisions described in this sub-section apply only for product packaging 11 intended for the general public, for example: products on sale/offer at a retailer's 12 or an outlet where the general public have open access to them, products sold to 13 the general public through a website

14 The requirements for child-resistant fastening and tactical warnings of danger do 15 not apply for product packaging which is for professional users only.

16

### 17 **Child-resistant fastening (CRF)**

A child-resistant package<sup>9</sup> is a package consisting of a container and appropriate
 closure which is difficult to open (or gain access to the contents) for young
 children under the age of fifty-two months, but which is not difficult for adults to
 use properly<sup>10</sup>.

22 Annex II to CLP refers to two types of child-resistant fastening for packages:

- non-reclosable package a package which, when all or part of the
   contents have been removed, cannot be properly closed again, for
   example a blister pack or air freshener refills;
- reclosable package a package (for example a one litre bottle or a five
   litre container) which after it has been initially opened, can be reclosed
   and re-used numerous times without loss of security.
- 29

33

34

- 30 For fastening of the abovementioned packages, Annex II to CLP requires 31 conformity with the following standards, as amended:
- EN ISO 8317 (reclosable packages) and
  - CEN EN 862 (non-reclosable packages).

Conformity with these standards may only be certified by laboratories which conform to EN ISO/IEC 17025, as amended. The EN ISO/IEC 17025 standard relates to the competence of testing laboratories and the requirements which they are required to meet to demonstrate that they are technically competent and can generate technically valid results.

<sup>&</sup>lt;sup>9</sup> Please note that the terminology differs between the CLP legal text and the EN standard. CLP refers to packaging fitted with child resistant **fastening**, whereas EN ISO 8317 refer to child resistant **packages**.

<sup>&</sup>lt;sup>10</sup> According to EN ISO 8317.

1 A packaging of whatever capacity supplied to the general public must be fitted 2 with CRF for substances or mixtures: 3 classified for acute toxicity 1-3 - oral (H300 and H301), dermal (H310 and 4 H311) and inhalation (H330 and H331), STOT-SE 1 (H370), STOT-RE 1 5 (H372), skin corrosion cat. 1, subcategories: 1A, 1B, 1C (H314), or 6 classified as presenting an aspiration hazard (H304) with the exception of substances and mixtures that are placed on the market in the form of 7 8 aerosols or in a container fitted with a sealed spray attachment, or 9 containing methanol at a concentration greater or equal to 3% or 10 dichloromethane at a concentrations greater or equal to 1% (see also 11 Table 3 of this guidance document). 12 13 14 Tactile warnings of danger (TWD) 15 16 Packages provided with a tactile warning of danger enables blind or visually 17 impaired people to ascertain if the packages contains a hazardous substance or 18 mixture. A TWD must be placed on the packaging, so that it can be felt before 19 accessing the contents. The warning must be located in such a way that any other 20 embossed patterns do not cause confusion. The exact location of the TWD must 21 be according to EN ISO standard 11683. 22 23 The TWD must also remain tactile during the expected period of use of the 24 package under normal handling conditions. The TWD is not required on outer 25 packaging such as for example a cardboard box protecting a glass bottle<sup>11</sup>. 26 27 For TWD Annex II to CLP requires the TWD to conform to standard EN ISO 11683. 28 as amended. The required standard TWD symbol (the "normal" symbol under the 29 ISO standard) is an equilateral triangle. In exceptional cases (if the application of 30 the normal symbol is not physically possible) the three dots symbol may be used. 31 If it is not physically possible to even use the three dots symbol, the three mm 32 symbol may be used<sup>12</sup>. 33 34 A packaging of whatever capacity supplied to the general public must be fitted 35 with TWD for substances or mixtures classified for: 36 37 acute toxicity 1-4 - oral (H300, H301 and H302), dermal (H310, H311 \_ 38 and H312) and inhalation (H330, H331 and H332), 39 skin corrosion cat. 1, subcategories: 1A, 1B and 1C (H314), \_ 40 germ cell mutagenicity 2 (H341), \_ 41 carcinogenicity 2 (H351), \_ 42 reproductive toxicity 2 (H361); \_ 43 respiratory sensitisation 1, 1A and 1B (H334), 44 \_ STOT 1 or 2 (H370, H371, H372 and H373),

<sup>&</sup>lt;sup>11</sup> According to EN ISO 11683.

 $<sup>^{\</sup>rm 12}$  The arrangement and layout of the triangle, three dots as well as the three mm symbol are specified in EN ISO 11683.

- 1 aspiration hazard 1 (H304),
- 2 flammable gases 1 and 2 (H220 and H221),
- 3 flammable liquids 1 and 2 (H224 and H225) or
  - flammable solids 1 and 2 (H228).
- 4 5

6 According to CLP Annex II, section 3.2.1.2 a TWD is not required for

7 transportable gas receptacles. A TWD is also not required for aerosols and

8 containers fitted with a sealed spray attachment containing substances or

9 mixtures classified as presenting an aspiration hazard, unless they are classified

10 for one or more of the other hazards mentioned above.

11

12 **Table 2** provides an overview of the hazard classifications triggering the CLP

- 13 provisions for CRF and/or TWD. See also **Table 3** which lists substances that can
- 14 trigger the CLP provisions for CRF and/or TWD if they are present in other
- 15 substances or in mixtures at a certain concentration.
- 16

# 17 Table 2: The hazard classifications that trigger the CLP provisions for18 child-resistant fastenings and/or tactile warnings

Hazard Class, Category	Child- resistant Fastenings	Tactile Warnings
Acute toxicity 1 to 3	√	✓
Acute toxicity 4		✓
STOT SE 1	✓	✓
STOT SE 2		✓
STOT RE 1	1	✓
STOT RE 2		✓
Skin corrosion (category 1, subcategories: 1A, 1B and 1C)	4	✓
Respiratory sensitisation (category 1, subcategories: 1A and 1B)		✓
Aspiration hazard 1 Note that a CRF and TWD are not required if the substance or mixture is supplied in the form of an aerosol or in a container fitted with a sealed spray attachment	✓	*
Germ cell mutagenicity 2		✓
Carcinogenicity 2		✓
Reproductive toxicity 2		✓
Flammable gases 1 and 2		1
Flammable liquids 1 and 2		✓
Flammable solids 1 and 2		*

21

1

2 Table 3: Substances that directly trigger the CLP provisions for child-

### 3 resistant fastenings and/or tactile warnings when they are contained in

4 other substances or in mixtures at or above the denoted concentration

Identification of the substance	Concentration limit	Child- resistant Fastenings	Tactile Warnings
Methanol	≥ 3%	1	<b>√</b> *
Dichloromethane	≥ <b>1%</b>	✓	<b>√</b> **

5 \* It should be noted that above a certain concentration, methanol mixtures also need a tactile
 6 warning because the mixtures would then have to be classified as flammable liquid, category 2,
 7 STOT 1 or 2.

8 \*\* In addition, mixtures containing dichloromethane at a concentration above 1% would be classified as carcinogenic, category 2 and thereby needs a tactile warning.

10

# 3.5.2 Liquid consumer laundry detergents in soluble packaging forsingle use

13

Additional safety measures for liquid laundry detergents in soluble capsules have
been introduced. They aim to ensure better protection of the general public,
especially young children who can be tempted to put the capsules into their
mouth.

18 The additional safety requirements make the packaging less attractive and more 19 difficult to open for children. In addition, the packaging is to display warnings to 20 alert parents and child-care providers that such products have to be kept out of 21 reach of children.

Besides these specific rules, the supplier is responsible, according to Article
35(2), for taking all necessary steps to make sure that the design of the
packaging is not attractive to children, e.g. that it cannot be mistaken for

25 foodstuff or toys.

A consumer laundry detergent is a detergent used for laundry, placed on the
 market for use by non-professionals, including public launderettes<sup>13</sup>.

Article 35(2) and Part 3.3 of Annex II to CLP provide the following requirements on packaging and labelling of liquid laundry detergents in dosages for single use contained in a soluble packaging:

31

# Obligation to market liquid consumer laundry detergents in an outer packaging

- Liquid consumer laundry detergents contained in soluble packaging for single use
  (for example liquid capsules or liquitabs for use in washing machines) must be
  contained in an outer packaging. Placing on the market of liquid detergent
  capsules without an appropriate outer packaging system is considered as noncompliant with Article 35(1) and Annex II, section 3.3.1 of CLP.
- 40

<sup>&</sup>lt;sup>13</sup> Article 2(1a) of Regulation 648/2004 on detergents.

#### 2 Provisions on the outer packaging 3

4 In order to reduce the attractiveness of liquid detergent capsules to children, the 5 outer packaging must be opaque or obscure (for example non-see through 6 container of a block colour(s)) to prevent visibility of the contents, i.e. the 7 product or individual doses.

8 The outer packaging must bear precautionary statement P102 ("Keep out of reach 9 of children") at a visible place and in a format that attracts attention.

10 Furthermore, the outer packaging must be a self-standing container, which is

11 easily re-closable, i.e. the pack closure must be easily re-closable in one single

12 movement (for example with one finger pressure for a tub packaging). This 13 measure aims to avoid the risk that the container will simply be left open if 14

closing is too difficult.

15 As the main cause of incidents seems to be the easy access to the detergent 16 capsules, the outer packaging must be fitted with a closure that impedes the 17 ability of young children to open the packaging. Such a closure should require 18 coordinated action of both hands with certain strength that makes it difficult for 19 young children to open it. It should be noted that this requirement does not 20 correspond necessarily with closure requirement for CRF described in section 21 3.5.1 of this guidance.

22 In addition, the pack closure must be designed for repeated use to maintain its 23 functionality under conditions of repeated opening and closing for the entire life span of the outer packaging. 24

25

#### 26 Provisions on the soluble (inner) packaging

27

28 Additional technical requirements (mechanical resistance and water dissolution) 29 were introduced to make the soluble packaging more resistant.

30 In addition to the requirements for the outer packaging, the soluble packaging 31 must contain an aversive (e.g. bittering or other repulsive) agent against oral 32 exposure. The aversive agent must be added in a concentration which is safe and 33 which causes oral repulsive behaviour within a maximum time of six seconds.

34 The soluble film must also meet minimum mechanical and dissolution resistance

35 criteria. It must retain the liquid content for at least 30 seconds when placed in

36 water at 20°C. It must also resist mechanical compression of at least 300 N under

37 standard test conditions.

> The labelling of soluble packaging containing less than or equal to 25 ml may benefit from a labelling exemption under the conditions specified in section 1.5.2.2 of Annex I to CLP, (sub-section 5.3.2.2 of this guidance); the labelling requirements of CLP Article 17 apply to soluble packaging where the contents are more than 25 ml.

# 4. Rules for the application of the CLP label elements

### 3 4.1 Contact details of the supplier

According to CLP Article 17, the contact details of one or several suppliers must
be included on the label. In principle, there can be more than one supplier of the
same substance or mixture in the supply chain, e.g. in case a mixture has been
supplied by the formulator to a distributor who would supply it to third parties as
well. However, CLP Article 17 does not specify whether the contact details of both
suppliers are needed in such cases. Nor does it specify whether the contact
details of one particular supplier have precedence.

Following from CLP Article 4(4), each supplier must ensure that a hazardous substance or mixture is labelled and packaged in accordance with Titles III and IV of the CLP Regulation before he places it on the market. On the way through the supply chain the labelling for the same substance or mixture may vary depending on the volume of the package or as a consequence of further layers of packaging, (<u>sub-section 5.2</u>, <u>sub-section 5.3</u> and <u>sub-section 5.4</u> of this guidance).

17 Where a supplier changes the packaging so that the label elements set out in CLP 18 Article 17 have to be displayed differently than on the label/packaging supplied to

19 him, he takes the responsibility for re-packaging and re-labelling and should add

his own name and contact information on the label. In this case he may also

21 replace the contact information of his supplier with his own contact details.

When he does not change the packaging such that changes to the labelling would become necessary, he does not need to add his contact details to the label nor replace the contact information of his supplier with his own contact details, but may do so if he wishes to. In case he changes the languages(s) displayed on a label, he should add his contact details to the contact details of the relevant supplier who issued the original label, as he is then responsible for the correct translation of the label content.

29

### 30 **4.2 Product identifiers**

This sub-section provides the guidance on the requirements for the product identifiers for substances (Article 18(2)) and mixtures (Article 18(3)). As a general rule, the same product identifier(s) as selected for the label must be used in the SDS<sup>14</sup> for a substance or mixture. Any product identifiers selected for the label must be written in the official language(s) of the Member State(s) where the substance or mixture is placed on the market, unless the Member State concerned provides otherwise, see CLP Article 17(2).

<sup>&</sup>lt;sup>14</sup> For further information on the compilation of the SDS, please consult the *Guidance on the compilation of safety data sheets* (<u>http://echa.europa.eu/guidance-</u><u>documents/guidance-on-reach</u>).

### 1 **4.2.1 Substances**

- 2 The product identifier for a substance must consist of at least the following:
  - a name and an identification number as given in Part 3 of Annex VI to CLP
- 4 The name can be any of the names stated as International Chemical 5 Identification in column 2 of the tables in Part 3 of Annex VI to CLP. The 6 identification number is typically the Index number, the EC number or the 7 CAS number. It is recommended to use the number that warrants an 8 unambiguous identification of the substance; in some cases it may be 9 warranted to use two numbers, e.g. the CAS and the EC number. When 10 translating the name of an Annex VI substance into the required 11 language(s), it may be useful to check whether an appropriate translation 12 is already available in a public database, for example in ECHA's 13 Classification and Labelling Inventory (C&L Inventory), see 14 http://echa.europa.eu/web/quest/information-on-chemicals/cl-inventory-15 database ; or
- if the substance is not included in Part 3 of Annex VI to CLP, a name and an identification number as they appear in the Classification and Labelling (C&L) Inventory.
- 19The name is typically the IUPAC name15, the EC name or the CAS name.20The identification number must be the EC or the CAS number or the Index21number (originating from table 3.1 of Annex VI). It is recommended to use22the number or numbers that warrant(s) an unambiguous identification of23the substance. The choice of an identifier such as (where applicable) the24EC number or CAS number is advisable to minimise the need for revision25of the SDS; or
- if the substance is neither included in Part 3 of Annex VI to CLP nor in the
   C&L Inventory database, the CAS number and the IUPAC name, or the
   CAS number and another international chemical name, e.g. the name in
   INCI nomenclature<sup>16</sup>, where applicable; or
- if no CAS number is available and none of the above apply, the IUPAC
   name or another international chemical name, e.g. the name in INCI
   nomenclature where applicable.
- 33
- 34
- 54
- 35

 $<sup>^{15}</sup>$  Where the IUPAC name exceeds 100 characters, suppliers can use one of the other names (usual name, trade name or abbreviation) referred to in section 2.1.2 of Annex VI REACH provided that a C&L notification to ECHA, in accordance with CLP Article 40(1)(b), includes both the IUPAC name and the other name used.

<sup>&</sup>lt;sup>16</sup> The *International Nomenclature Cosmetic Ingredients* (INCI) name is mandatory in the European Union (EU) according to Regulation (EC) No 1223/2009 for labelling the names of ingredients on cosmetic products. The INCI system was introduced in the European Community in 1996/97 and is well established for cosmetic products. It is also used in many non-EU countries. Since 2004, the INCI system is also mandatory in the EU for labelling of preservatives and allergenic perfume ingredients according to the Detergents Regulation (EC) No 648/2004.

#### 1 4.2.2 Mixtures

- 2 The product identifiers for mixtures must include both:
  - the trade name or the designation of the mixture; and •
- 4 the identity of all substances in the mixture that contribute to the • 5 classification of the mixture as regards acute toxicity, skin corrosion or 6 serious eye damage, germ cell mutagenicity, carcinogenicity, reproductive 7 toxicity, respiratory or skin sensitisation, specific target organ toxicity 8 (STOT), or aspiration hazard.

9 The CLP Regulation does not specify the type of chemical names<sup>17</sup> that should be 10 used to identify the chemical substances in the mixture. It only mentions the 11 approach used for identification of substances in the mixture that contribute to 12 the classification of the mixture (see Article 18(3)(b) and the second paragraph of 13 Article 18(3)). Nevertheless, when choosing a chemical name, it is recommended 14 that the approach outlined in Article 18(2) is followed. On that basis, if a name of 15 the substance is shorter than other names available to the user/consumer or 16 better recognised by the user/consumer in the language of the Member State where the mixture is placed on the market, this name should be used. This is 17 18 often the case for common or basic ingredients. Furthermore, if there is a 19 translated name available in Annex VI or in the C&L Inventory, this name should 20 be given preference.

21 In cases where another international chemical name (for example an INCI name) 22 is better known by the user/consumer, it is possible to deviate from the Article 23 18(2) approach. It is preferable to use the name that is regarded as well-known. 24 The name of the substance needs to unambiguously define its identity. Where an 25 INCI name does not sufficiently define the substance identity compared e.g. to 26 the requirements of Article 18 (2) or the requirements for SDSs under the REACH 27 Regulation, a clearer identification should be preferred.

28 If the trade name or the designation of the mixture already includes the name(s) 29 of the substance(s) contributing to the classification of the mixture as defined in 30 paragraph 3(b) of Article 18, they do not need to be repeated. Moreover, if the 31 supplemental information on the label already contains the chemical name of the 32 substance, e.g. in the list of allergens and preservatives required by Regulation 33 (EC) No 648/2004 on detergents, it is advisable to use the same name. This 34 approach should apply to both consumer and professional products.

35 The selected chemical names must identify the substances primarily responsible 36 for the major health hazards which have caused the classification of the mixture 37 and the assignment of the corresponding hazard statements.

38 To reduce the number of substance ('chemical') names on the label, no more than

- 39 four names should be provided on the label for a mixture, unless necessary due
- 40 to the nature and severity of the hazards. This may be the case where a mixture 41 contains more than four substances which are all present in significant
- 42
- concentrations so that they contribute to the classification of the mixture for one 43
- or several of the hazards mentioned under the Article 18(3)(b). Please refer also 44
- to CLP FAQ ID=1050 available at http://echa.europa.eu/support/gas-support/gas.

<sup>&</sup>lt;sup>17</sup> The terms used for identification of the mixture and the substances in the mixture must be the same as those used in the safety data sheet.

- 1 The manufacturer, importer or downstream user of certain less hazardous
- 2 substances contained in a mixture may conclude that disclosing substance
- 3 identifiers that are required for the label or the SDS can put the confidential
- 4 nature of his business or intellectual property rights at risk. In such cases he may
- 5 submit a request to ECHA to be granted permission to use an alternative chemical 6 name in accordance with CLP Article 24. The alternative name should be a more
- 7 general name identifying the most important functional groups or an alternative
- 8 designation. The conditions under which the use of an alternative name may be
- 9 granted are given in part 1, section 1.4 of Annex I to CLP.
- 10 The above requests are subject to a fee, in accordance with Article 3 of
- 11 Commission Regulation (EU) No 440/2010 (the Fee Regulation). Where the
- 12 request is submitted by a micro, small or medium-sized enterprise (SME)<sup>18</sup>, ECHA
- will levy a reduced fee as set out in Article 24(2) and Annex I of the FeeRegulation.
- For more information on how to request the use of an alternative chemical name for a substance in a mixture, please follow the technical instructions set out in the manual on preparation of REACH and CLP dossiers: How to prepare a request for use of an alternative chemical name for a substance in a mixture (<u>http://echa.europa.eu/manuals</u>). It is also advised to visit the following section on the ECHA website: <u>http://echa.europa.eu/support/dossier-submission-</u>
- 21 tools/reach-it/requesting-an-alternative-chemical-name-in-mixtures.
- 22

### 23 **4.3 Hazard pictograms**

### 24 4.3.1 General information

A hazard pictogram is a pictorial presentation to communicate information on the
hazard concerned, see also the definition provided in Articles 2(3) and 31(2) of
CLP. According to CLP Article 19, the classification of a substance or mixture
determines the hazard pictograms that have to be displayed on a label.
Information on the assignment of hazard pictograms to specific hazard classes
and categories/differentiations can also be found in Annex V to CLP.

Currently there are nine different pictograms. While normally only one pictogram is assigned to an individual hazard class or category, a few hazard differentiations have to carry two pictograms, namely substances and mixtures classified as selfreactive Type B or as organic peroxide Type B, see also below. It should also be noted that some pictograms cover several hazard classes and categories.

### 36 **4.3.2 Shape, colour and dimensions**

37 The colour and presentation of a label must allow the hazard pictogram and its 38 background to be clearly visible. Hazard pictograms must be in the shape of a 39 square set at a point, i.e. they must appear as a diamond shape when the label is 40 read horizontally, and must have a black symbol on a white background with a 41 red frame (see section 1.2.1 of Annex I to CLP). The exact type of red, i.e. the 42 Pantone colour number, is not defined, and labellers are free to use their discretion. Each hazard pictogram<sup>19</sup> must cover at least one fifteenth of the 43 44 minimum surface area of the label dedicated to the information required by CLP

<sup>&</sup>lt;sup>18</sup> SME is defined in Commission Recommendation 2003/361/EC.

<sup>&</sup>lt;sup>19</sup> The size of the pictogram relates here to the dimensions of the pictogram itself, and not to the size of the virtual square within which the pictogram is placed.

- 1 Article 17, but the minimum area of the pictogram must not be less than 1  $cm^2$ .
- 2 The minimum dimensions of labels and pictograms are given in Table 1.3 of
- 3 Annex I to CLP. Below is the exclamation mark (pictogram GHS07) as an example
- 4 pictogram. This is assigned to various health hazard classes and categories of
- 5 lower severity, see Part 2 of Annex V to CLP:



6

7 Printable pictograms are provided free of charge for download at

8 <u>http://www.unece.org/trans/danger/publi/ghs/pictograms.html</u>.

### 9 4.3.3 Precedence rules

10 For substances and mixtures classified for more than one hazard, several

11 pictograms may be required on the label. In such cases, the applicability of the

12 precedence rules set out in CLP Article 26 needs to be checked. As a general rule,

13 the pictograms which reflect the most severe hazard category of each hazard

class must be included on the label. This would also apply where a substance hasboth a harmonised and a non-harmonised (i.e. self-) classification, see CLP Article

16 26(2). 17

Further to this, CLP sets out precedence rules relating to particular hazardpictograms and classifications:

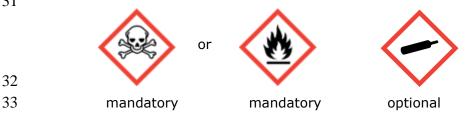
- For physical hazards, if the label carries the pictogram GHS01 (exploding bomb), then GHS02 (flame) and GHS03 (flame over circle) are optional ...
- 22

23 24



25 ... except in cases where more than one pictogram is compulsory,
 26 namely for substances and mixtures classified as self-reactive Type B or as
 27 organic peroxide Type B, see Annex I to CLP;

- For physical and health hazards, if the label carries the pictogram GHS02
   (flame) or GHS06 (skull and crossbones), then GHS04 (gas cylinder) is
   optional<sup>20</sup>:
- 31



 $^{20}$  This precedence rule was introduced by the Commission Regulation (EU) No 286/2011 of 10 March 2011 (2<sup>nd</sup> ATP to the CLP Regulation).

- For health hazards, if the label carries the pictogram GHS06 (skull and
  - crossbones), then GHS07 (exclamation mark) must not appear:





- For health hazards, if the label carries the pictogram GHS05 (corrosion), then GHS07 (exclamation mark) must not be used for skin or eye irritation...



... but still has to be used for other hazards.

For health hazards, if the label carries the pictogram GHS08 (health hazard) for respiratory sensitisation, then GHS07 (exclamation mark) must not be used for skin sensitisation or for skin or eye irritation ...



... but still has to be used for other hazards.

In case a substance or mixture is assigned the supplemental hazard statement EUH071 ("Corrosive to the respiratory tract"), a corrosivity pictogram (GHS05) may be assigned, see Note 1 of Table 3.1.3 of Annex I to CLP. Where this is done, the pictogram GHS07 (exclamation mark) for STOT, single exposure, category 3 (respiratory tract irritation) must be omitted from the label, as well as the hazard statement H335 (May cause respiratory irritation).

For substances and mixtures that have to be labelled both in accordance with the CLP Regulation and with the rules on the transport of dangerous goods, the CLP pictogram(s) may be omitted from the label where the CLP pictogram(s) relates to the same hazard as in rules for transport (sub-section 5.4 of this guidance).

### 1 4.3.4 Blank pictograms

When preparing hazard labels, a common practice is to use pre-printed label
stocks of the diamonds (the label background is printed first before it is
overprinted with the specific label information). This may result in labels with a
number of pre-printed empty diamonds, not all of which may then be needed by
a company that has purchased pre-printed labels. In such a situation one or more
pre-printed diamonds may have to be left empty.
CLP does not explicitly forbid blank diamonds. However, any information given in

8 CLP does not explicitly forbid blank diamonds. However, any information given in 9 addition to the minimum mandatory labelling must not contradict or cast doubt

10 on the mandatory label information (Article 25(3)), while empty red frames might

11 raise questions. If empty red frames are unavoidable, it is recommended to cover

- 12 them up with a solid overprint which blacks them out completely, see the
- 13 example in **Figure 3**.

		Substance A	
E Z		Danger	
		Reacts violently with water.	
	In contact with water releases flammable gases which may ignite spontaneously.		
		Causes severe skin burns and eye damage.	
		Wear protective gloves / protective clothing / eye protection/face protection. Brush off loose particles from skin. Immerse in cool water. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
See safety data sheet for further details regarding safe use of the product.			
Company X,	Street Y, CITY Z,	phone: +49 (0) 0000 00 00 00 00	

14 15

### 16 Figure 3. Blackened out empty diamonds

Blacking-out of empty diamonds aims to avoid the impression that relevanthazard symbols may have been left off the label through a printing mistake.

- Please refer also to CLP FAQ ID=240 available at
   <u>http://echa.europa.eu/support/qas-support/qas.</u>
- 23
- 24
- 25

### 1 4.4 Signal words

A signal word indicates the relative level of severity of a particular hazard. The
label must include the relevant signal word in accordance with the classification of
the hazardous substance or mixture: more severe hazards require the signal word
`Danger' while less severe hazards require the signal word `Warning', see CLP
Article 20.
The signal word relevant for each specific classification is set out in the tables

8 indicating the label elements required for each hazard class as set out in parts 2

9 to 5 of Annex I to CLP. Some hazard categories, like explosives, division 1.6, do 10 not have a signal word.

Where a substance or mixture is classified for more than one hazard, the label must only bear one single signal word. In such cases, the signal word 'Danger' takes precedence and the signal word 'Warning' must not appear.

### 14 **4.5 Hazard statements**

15 CLP hazard labels must also bear the relevant hazard statements describing the 16 nature and severity of the hazards of a substance or mixture, see CLP Article 21.

17 The hazard statements relevant for each hazard class and category/differentiation 18 are set out in the tables contained in parts 2 to 5 of Annex I to CLP. An example 19 is the hazard statement H302 (Harmful if swallowed) assigned to acute oral 20 toxicity, category 4. The wording for hazard statements is given in Tables 1.1, 1.2 21 and 1.3 of Annex III to CLP.

In some cases additional information to complement a hazard statement<sup>21</sup> may need to be provided, such as the specification of the route of exposure or of the target organ for certain health hazards, i.e. for the CMR and the STOT single and repeated exposure hazard classes. For example:

- o for the STOT-RE, category 1 the hazard statement H372 (Causes damage to organs through prolonged or repeated exposure) must be complemented by the organs affected if known and by the route of exposure if it is conclusively proven that no other routes of exposure cause the hazard, e.g. H372 (Causes damage to the liver through prolonged or repeated dermal exposure);
- o for the STOT-SE, category 1 the route of exposure or the target organ
  may have to be included in the statement as well, e.g. H370 (Causes
  damage to the liver via ingestion).

35 If a substance classification is harmonised and included in Part 3 of Annex VI to 36 CLP, the corresponding hazard statement(s) relevant for this classification have to 37 be used on the label. Note that certain harmonised classifications marked with an 38 asterisk in Part 3 of Annex VI to CLP are minimum classifications, and based on 39 available data a more severe classification as well as the corresponding hazard 40 statement may need to be assigned. Also, hazard statements may need to be 41 included for non-harmonised hazards classes or differentiations which are not 42 covered in the Annex VI listing for the same substance, see CLP Article 4(3).

<sup>&</sup>lt;sup>21</sup> Please note that this does not constitute supplemental labelling information in the meaning of CLP Article 25. It is rather additional hazard information which is required to be included within the hazard statement itself, beyond the standardised wording.

1 Table 1.2 of Annex III to CLP defines which combined hazard statements are 2 allowed<sup>22</sup>. Currently, combinations are allowed for acute toxicity hazard 3 statements which relate to different routes of exposure, but to the same 4 category. Such statements can appear on the label and in the SDS, for example: 5 for category 3 for the oral and dermal route H301+H311 (Toxic if swallowed or in 6 contact with skin). 7 If a substance or mixture is classified in several hazard classes or differentiations 8 of a hazard class, all hazard statements resulting from the classification must 9 appear on the label, unless there is evident duplication or redundancy, see CLP 10 Article 27. For example: if the hazard statement H314 (Causes severe skin burns 11 and eye damage) is assigned, H318 (Causes serious eye damage) may be 12 omitted. Similarly, if the hazard statement H410 (Very toxic to aquatic life with 13 long lasting effects) is assigned, H400 (Very toxic to aquatic life) may be omitted. 14 Duplication or redundancy should also be avoided for a substance or mixture 15 which is assigned the supplemental hazard statement EUH071 (Corrosive to the respiratory tract)<sup>23</sup>. In this case, the hazard statement H335 (May cause 16 17 respiratory irritation) for STOT, single exposure, category 3 (respiratory tract 18 irritation) must be omitted from the label.

19 The correct wording of the hazard statements as it has to appear on the label is 20 given in CLP Annex III, in all EU languages. The hazard statements of one

21 language must be grouped together with the precautionary statements of the 22 same language on the label (<u>sub-section 3.3</u> of this guidance).

### 23 **4.6 Precautionary statements**

24 CLP hazard labels must bear the relevant precautionary statements giving advice 25 on measures to prevent or minimise adverse effects to human health or the 26 environment arising from the hazards of a substance or mixture, see CLP Article 27 22. An example is the precautionary statement P373 (DO NOT fight fire when fire 28 reaches explosives). The complete set of precautionary statements relevant for 29 each hazard class and category/differentiation is listed by alphanumeric code in 30 the tables indicating the label elements required for each hazard class in parts 2 31 to 5 of Annex I to CLP.

32 Precautionary statements must be selected in line with the provisions set out in 33 CLP Article 22 and 28 and with Part 1 of Annex IV to CLP: any selection must take 34 into account the hazard statements used, the intended or identified use or uses of 35 the substance or mixture as well as the basic instructions specified in the 36 "conditions for use" columns in tables 6.1 – 6.5 of Annex IV to the CLP 37 Regulation. Duplication and redundancy should be avoided. Where the substance 38 or mixture is supplied to the general public, one precautionary statement 39 addressing the disposal of that substance or mixture as well as the disposal of 40 packaging must in general<sup>24</sup> appear on the label, see CLP Article 28(2). Normally, 41 not more than six precautionary statements must appear on the label, unless 42 necessary to reflect the nature and the severity of the hazards (**Example C** in 43 sub-section 7.4 of this guidance).

 $<sup>^{\</sup>rm 22}$  Commission Regulation (EU) No 286/2011 of 10 March 2011

 $<sup>^{\</sup>rm 23}$  See also Note 1, Table 3.1.3 of Annex I to CLP

<sup>&</sup>lt;sup>24</sup> In all other cases, a P-statement addressing disposal is not required, where it is clear that the disposal of the substance or mixture or the packaging does not present a hazard to human health or the environment.

For assistance with the selection of the most appropriate P-statements, please
 refer to section 7 of this guidance.

3 Part 2 of Annex IV to CLP lists, in all EU languages, the correct wording of the

4 precautionary statements as it must appear on a label. In case of different

5 translations of P-statements, the translation in national version of CLP usually

6 gives the most relevant wording. The precautionary statements of one language

7 have to be grouped together with the hazard statements of the same language on

8 the label (<u>sub-section 3.3</u> of this guidance).

### 9 **4.7 Codes for hazard and precautionary statements**

10 Hazard and precautionary statements are codified using a unique alphanumerical 11 code which consists of one letter and three numbers, as follows:

- the letter "H" for "hazard statement" or "P" or "precautionary statement";
- for hazard statements, the first digit designating the type of hazard: physical hazards 2, health hazards 3 and environmental hazards 4 and following two digits corresponding to the sequential numbering of hazards, such as explosivity (codes from 200 to 210), flammability (codes from 220 to 230), etc.
- risk phrases carried through from DSD and DPD, but which are not yet
   included in the GHS are codified as "EUH";
- for precautionary statements, a digit reflecting one of five types of
   statements, namely general statements (1), prevention statements (2),
   response statements (3), storage statements (4) and disposal statements (5),
   followed by two digits for the sequential numbering of the statements
   themselves.

The code ranges for the hazard and precautionary statements under CLP are set out in **Table 4** below:

### 27 Table 4: Code ranges of hazard and precautionary statements under CLP

Hazard Statements: H	Precautionary Statements: P
200 – 299 Physical hazard	100 – 199 General
300 – 399 Health hazard	200 – 299 Prevention
400 – 499 Environmental hazard	300 – 399 Response
	400 – 499 Storage
	500 – 599 Disposal

28 The codes of the hazard and precautionary statements and EUH statements are

29 not necessary for the label. The CLP Regulation only requires the actual phrasing 20 of the applicable statements on the label

30 of the applicable statements on the label.

### 1 4.8 Supplemental labelling information

CLP Article 25 defines the concept of 'supplemental information' which is intended to incorporate additional labelling information over and above that listed in CLP Article 17(a) to (g). This additional labelling information can be divided into two categories, namely obligatory and non-obligatory information. Please note that according to Article 25(6) supplemental labelling information might be obligatory for a mixture, even if not classified as hazardous.

8 All 'supplemental information' must be located in the section for supplemental

9 information on the label. Both obligatory and non-obligatory supplemental

10 information have to appear in the same languages as the other CLP label 11 elements.

12 As it is obligatory to place this information alongside the label elements required

- 13 by CLP Article 17(a) to (g), these supplemental label elements need to be
- 14 considered carefully as to the location and the space they need when preparing a
- 15 CLP label for a substance or mixture (see also Example 3 under section 6 of this
- 16 guidance).
- 17

Obligatory supplemental information, when applied, must be easy to identify and to read. Naturally, it has precedence over any non-obligatory supplemental information if space on the label is limited.

### 18

### **4.8.1 Obligatory supplemental labelling information**

20 Obligatory supplemental labelling information includes:

21 22 23 24 25	•	Supplemental hazard statements relating to particular physical and health properties. These are codified as "EUH" statements, i.e. EUH001 (Explosive when dry). For some substances with harmonised classifications, the supplemental hazard statements are included in Part 3 of Annex VI;		
26 27 28 29	•	Supplemental statements for certain mixtures, e.g. the EUH204 (Contains isocyanates. May produce an allergic reaction), see Part 2 of Annex II to CLP. These phrases are assigned EUH codes as well, to align their presentation with the supplemental hazard statements, see above;		
30 31 32 33	•	The supplemental statement EUH401 (To avoid risks to human health and the environment, comply with the instructions for use) for hazardous substances and mixtures within the scope of Directive 91/414/EEC <sup>25</sup> (see Part 4 of Annex II);		
34 35	•	Label elements resulting from other EU acts (see CLP Article 32(6)), for example:		
36		<ul> <li>the authorisation number requested by the REACH Regulation,</li> </ul>		
37 38		<ul> <li>the listing of surfactants and perfumes according to the Regulation (EC) No 648/2004 on detergents, as amended,</li> </ul>		

 $<sup>^{25}</sup>$  Repealed by Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market with effect from 14 June 2011.

1	<ul> <li>the authorisation number of the biocidal product according to the</li></ul>	
2	Biocidal Products Regulation (EU) No 528/2012,	
3	<ul> <li>the flammability labelling according to the Aerosol Dispensers</li></ul>	
4	Directive 75/324/EEC (ADD), as amended or	
5	<ul> <li>the content of volatile organic compounds (VOC) in accordance with</li></ul>	
6	Directive 2004/42/EC <sup>26</sup> .	
7	Further additional obligatory information can include:	
8 9 10 11 12 13 14	<ul> <li>Specific response information as referred to in the brackets of the precautionary statements P320 "Specific treatment is urgent (see on this label)", P321 "Specific treatment (see on this label)" in Annex IV to CLP, e.g. "see supplemental first aid instructions on this label" or "see supplemental instructions on the administration of antidotes on this label". See also Table 5 below and the selection tables (<u>sub-section 7.3</u> of this guidance);</li> </ul>	
15 16 17 18 19 20 21 22 23 24	<ul> <li>For mixtures containing components of unknown acute toxicity at a concentration of 1% or greater, the statement "x percent of the mixture consists of component(s) of unknown acute toxicity" (see point 3.1.3.6.2.2 of Annex I to CLP). This statement also has to be included in the SDS, when this is provided<sup>27</sup>. In addition, it may be appropriate to differentiate the hazard based on the route of exposure. For example: "x percent of the mixture consists of ingredient(s) of unknown acute (oral/dermal/inhalation) toxicity", in particular where the substance is also classified for other hazards and where it is important to specify the route of exposure (see also <i>Guidance on the application of the CLP criteria</i>);</li> </ul>	
25	<ul> <li>For mixtures where no useable information on the short-term (acute)</li></ul>	
26	and/or long-term (chronic) aquatic hazard is available for one or more of	
27	the relevant components, the statement "Contains x percent of	
28	components with unknown hazards to the aquatic environment", see point	
29	4.1.3.6.1 of Annex I to CLP. This statement has to be included on the label	
30	and in the SDS;	
31	CLP requires supplemental label information to be located in a specific,	
32	supplemental information section on the label. A supplier may also choose to	
33	place the supplemental information in several locations, taking into account the	
34	requirements of CLP Article 25. See <u>Example 3</u> and <u>Example 5</u> in <u>section 6</u> of this	
35	document.	
36 37 38 39 40	Similarly, the section for supplemental label information should be visibly separated from the labelling elements according to CLP Article 17(a) to (g), e.g. by placing it in another section of the label, by putting it in a text box, by colour or by different letter size. However, on a case-by-case basis, it may not be advisable to make a visible differentiation between the CLP elements and	

40 advisable to make a visible differentiation between the CLP elements and

 $<sup>^{26}</sup>$  Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC

<sup>&</sup>lt;sup>27</sup> For further information on the compilation of the SDS, please consult the *Guidance on the compilation of safety data sheets* (<u>http://echa.europa.eu/guidance-documents/guidance-on-reach</u>).

- 1 obligatory supplemental labelling information that is requested by other
- 2 legislation, where the latter supports the safe handling and use of a substance or
- 3 mixture. For example, where additional EUH statements express a similar warning
- 4 as contained in the hazard statements which reflect a classification, it is even
- 5 advisable to group both statements together on the label so that they reinforce
- 6 each other. For example: for a substance which is classified as water-reactive
- category 1, the hazard statement EUH014 ("Reacts violently with water.") is very
   similar to H260 ("In contact with water releases flammable gases which may
- 9 ignite spontaneously."), see also <u>Example 4</u> in <u>section 6</u> of this guidance.
- 10 In relation to readability, obligatory labelling information required by other EU
- 11 legislation (e.g. the content of volatile organic compounds as required by
- 12 Directive 2004/42/EC or the listing of specified constituents as required by
- 13 Regulation (EC) No 648/2004) must not be treated differently from other
- 14 obligatory labelling information required by CLP itself. Obligatory information
- 15 must be easy to identify and read and must take precedence on the CLP label
- 16 over any other non-obligatory supplemental information. An overview of the
- 17 obligatory supplemental label elements to be included in the section for
- 18 supplemental information on the label is provided in **Table 5**.
- 19

# Table 5: Obligatory supplemental labelling information pursuant to CLP Articles 25 and 32

Legal Reference	Type and Applicability	Code	Content / Phrasing	
CLP Article 25(1) and Annex II, Part 1, section 1.1	a) Supplemental hazard statements relating to certain physical properties of substances and mixtures. They need to be assigned in accordance with the conditions specified in Annex II when a substance or mixture has already been classified on the basis of the criteria in Annex I to CLP. For some substances with harmonised classifications, supplemental hazard statements are included in Part 3 of Annex VI.			
		EUH001	'Explosive when dry'	
		EUH014	'Reacts violently with water'	
		EUH018	`In use, may form flammable/ explosive vapour-air mixture'	
		EUH019	'May form explosive peroxides'	

Legal Reference	Type and Applicability	Code	Content / Phrasing	
		EUH044	'Risk of explosion if heated under confinement'	
CLP Article 25(1) and Annex II, Part 1, section 1.2	<ul> <li>b) Supplemental hazard statements relating to health properties of substances and mixtures. They need to be assigned in accordance with the conditions specified in Annex II, Part 1, section 1.2 when a substance or mixture has already been classified on the basis of the criteria in Annex I to CLP. For some substances with harmonised classifications, supplemental hazard statements are included in Part 3 of Annex VI. For EUH071, see also Annex I, Table 3.1.3, Note 1</li> </ul>			
		EUH029	'Contact with water liberates toxic gas'	
		EUH031	'Contact with acids liberates toxic gas'	
		EUH032	'Contact with acids liberates very toxic gas'	
		EUH066	'Repeated exposure may cause skin dryness or cracking'	
		EUH070	'Toxic by eye contact'	
		EUH071	'Corrosive to the respiratory tract'	
CLP Article 25(6) and Annex II, Part 2	Supplemental statements for certain mixtures. They need to be assigned to mixtures in accordance with the conditions specified in Annex II, Part 2.			

Legal Reference	Type and Applicability	Code	Content / Phrasing
	1. Mixtures containing lead	EUH201	'Contains lead. Should not be used on surfaces liable to be chewed or sucked by children'
	<ul> <li>for packaging content less than 125 ml</li> </ul>	EUH201A	'Warning! Contains lead'.
	2. Mixtures containing cyanoacrylates	EUH202	'Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.'
	3. Cement and cement mixtures	EUH203	'Contains chromium (VI). May produce an allergic reaction'
	<ol> <li>Mixtures containing isocyanates</li> </ol>	EUH204	'Contains isocyanates. May produce an allergic reaction'
	<ol> <li>Mixtures containing epoxy constituents with an average molecular weight ≤ 700</li> </ol>	EUH205	'Contains epoxy constituents. May produce an allergic reaction'
	6. Mixtures sold to the general public which contain active chlorine	EUH206	'Warning! Do not use together with other products. May release dangerous gases (chlorine)'
	<ol> <li>Mixtures containing cadmium (alloys) and intended to be used for brazing or soldering</li> </ol>	EUH207	'Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.'

Legal Reference	Type and Applicability	Code	Content / Phrasing
	<ol> <li>Mixtures not classified as sensitising but containing at least one sensitising substance<sup>28</sup></li> </ol>	EUH208	'Contains (name of sensitising substance). May produce an allergic reaction'
<ul> <li>9. Liquid mixtures containing halogenated hydrocarbons</li> <li>10. Mixtures not intended for the general public</li> </ul>		EUH209 EUH209A	'Can become highly flammable in use or Can become flammable in use'
		EUH210	'Safety data sheet available on request'
	11. Aerosols		Aerosols are also subject to the labelling provisions of Directive 75/324/EEC
CLP Annex IV	<ul> <li>Substances and mixtures assigned the precautionary statements</li> <li>P320 - Specific treatment is urgent (see on this label).</li> <li>P321 - Specific treatment (see on this label).</li> </ul>		Supplemental first aid instruction (e.g. administration of an antidote or immediate measures such as specific cleansing agent) referred to in the brackets of the precautionary statements
CLP Annex I, section 3.1.3.6.2.2.	Mixture containing ingredient(s) of unknown acute toxicity at a concentration at 1% or greater		'x percent of the mixture consists of component(s) of unknown acute toxicity' (also for safety data sheet)

<sup>&</sup>lt;sup>28</sup> According to the last paragraph of Section 2.8 of Annex II (introduced by Commission Regulation (EU) No 286/2011 (2<sup>nd</sup> ATP to the CLP Regulation)), *mixtures classified as sensitising* containing other substance(s) classified as sensitising (in addition to the one that leads to the classification of the mixture) and present in a concentration equal to or greater than that specified in Table 3.4.6 of Annex I to CLP must bear the name(s) of that/those substance(s) on the label. Note that EUH208 must be used when a *mixture not classified as sensitising contains sensitising substances*. However, according to Commission Regulation (EU) 2016/918 (8<sup>th</sup> ATP to the CLP Regulation), where a mixture is labelled with EUH204 in accordance with Section 2.4 of Annex II or EUH205 in accordance with Section 2.5 of Annex II, the statement EUH208 may be omitted from the label when the only substances triggering EUH208 are isocyanates or epoxy constituents.

Legal Reference	Type and Applicability	Code	Content / Phrasing
CLP Annex I, section 4.1.3.6.1	Mixture where no useable information on the short-term (acute) and/or long-term (chronic) aquatic hazard is available for one or more of the relevant components		'Contains x percent of components with unknown hazards to the aquatic environment'. (also for safety data sheet)
CLP Article 25(2)Supplemental statement for substances and mixtures within the scope of Directive 91/414/EEC29		EUH401	'To avoid risks to human health and the environment, comply with the instructions for use'.
	Examples:		
	<ul> <li>★ Regulation (EC) No 1907/2006 (REACH)</li> </ul>		<ul> <li>authorisation number</li> <li>labelling statements related to restrictions in Annex XVII of REACH, e.g. 'Restricted to professional users'</li> </ul>
Label elements resulting from other Community acts pursuant to CLP Article 32(6)	★ Regulation (EC) No 648/2004 (detergents)		<ul> <li>listing of specified constituents such as anionic surfactants, oxygen bleaching agents, enzymes, disinfectants, optical brighteners and perfumes</li> </ul>
	★ Directive 75/324/EEC on aerosol dispensers (AAD)		★ flammability labelling
	<ul> <li>Directive 2004/42/EC on volatile organic compounds (VOC)</li> </ul>		<ul> <li>content of volatile organic compounds</li> </ul>
	<ul> <li>★ Biocidal Products Regulation (EU) No 528/2012</li> </ul>		<ul> <li>for example: authorisation number of the biocidal product</li> </ul>

<sup>&</sup>lt;sup>29</sup> Repealed by Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market with effect from 14 June 2011.

#### **4.8.2** Non-obligatory supplemental labelling information

2 In some cases suppliers may need to include certain elements on the label which 3 are not obligatory, but are necessary for the handling and use of the product, for 4 example specific product information, basic instructions for use or P-statements 5 which do not arise directly from the classification of the product (e.g. 'Read label 6 before use' or 'Do not get in eyes' - for eye irritant mixtures). Such non-7 obligatory supplemental labelling information, the content of which is up to the 8 discretion of the supplier, is not part of the labelling requirements under CLP. 9 The need for non-obligatory information should also be taken into account when 10 deciding how to lay out the label. The non-obligatory supplemental information may also be placed alongside the label elements required in CLP Article 17(a) to 11 12 (g) and the obligatory supplemental information, when applied. However, such 13 information must not be confusing to the user or contradict the obligatory label elements. It should also provide further necessary details, see CLP Article 25(3). 14 15 16 Additional labelling elements which come from the UN GHS but are not 17 implemented in CLP may be included in the section for non-obligatory 18 supplemental information, but they must not confuse the user. 19 20 In addition, any non-obligatory supplemental information, either included on the 21 label or on the packaging, must be consistent with the classification of the 22 substance or mixture, see CLP Article 25(4). This means that statements such as 23 'non-toxic', 'non-polluting' or 'ecological', or other statements suggesting that the 24 substance/mixture is not hazardous or statements that are incompatible with the 25 assigned classification must not appear on the label or packaging of a classified 26 substance or mixture.

- 27
- 28

# 5. Guidance on particular aspects of CLP hazard labelling

31

### 32 **5.1 Further aspects to consider for the CLP hazard label**

To enable the supplier to design labels in compliance with CLP while at the same
 time allowing for as much freedom in arranging labels as possible, further
 labelling aspects should be considered.

- 36 Label size: CLP defines minimum dimensions for the size of the label and some of its elements (see sub-section 5.2 of this guidance);
   20 State defines the state of the size of the label and some of its elements (see sub-section 5.2 of this guidance);
- 38 Specific labelling rules that refer to specific labelling and packaging situations, for example:
- 40 41
- a substance or mixture is contained in awkwardly shaped or small packaging, see CLP Article 29.
- 42
- the packaging consists of multiple layers and/or
- 43 a substance or mixture is subject to the labelling provisions of the
  44 CLP Regulation and to labelling provisions in accordance with
  45 the rules on the transport of dangerous goods according to
  46 the UN Recommendations on the Transport of Dangerous Goods -

1 2 3 4	Model Regulations (the so-called "Orange Book") <sup>30</sup> . The person responsible for compiling a CLP label needs to consider all of these rules before making a final decision on the label of the substance or mixture, see CLP Article 33;
5	<ul> <li>Selection of precautionary statements:</li> </ul>
6	The selection of the most appropriate set of precautionary statements for
7	the label is largely at the discretion of the supplier. Please refer to <u>section</u>
8	7 of this guidance.
9	
10	
11	5.2 Size of the label and of the label elements
12	
13	Section 1.2 of Annex I to CLP defines the label size setting out <b>minimum</b>

13 Section 1.2 of Annex I to CLP defines the label size, setting out **minimum** 14 dimensions for the label, with the pictogram size being linked to these minimum 15 dimensions (see also Table 6 below). Nevertheless, the label should be large enough to contain all the label elements defined by CLP while remaining legible. 16 17 As a result, the label may need to be larger than the minimum area specified.

18

#### 19 Table 6: Minimum dimensions of labels and pictograms under CLP

20 21

Capacity of the package	Dimensions of the label (in millimetres) for the information required by Article 17	Dimensions of the pictogram (in millimetres)
$\leq$ 3 litres	If possible, at least 52 $\times$ 74	Not smaller than 10 x 10 If possible, at least 16 x 16
> 3 litres but $\leq$ 50 litres	At least 74 x 105	At least 23 x 23
> 50 litres but $\leq$ 500 litres	At least 105 x 148	At least 32 x 32
> 500 litres	At least 148 x 210	At least 46 x 46

22

23 CLP requires that the label elements as referred to in CLP Article 17(1) be of such 24 size and spacing as to be easily read.

25 Readability is determined by the combination of font size, letter spacing, spacing 26 between lines, stroke width, type colour, typeface, width-height ratio of the 27 letters, the surface of the material and significant contrast between the print and 28 the background.

- 30
- 31
- 32
- 33

<sup>&</sup>lt;sup>30</sup> Implemented in the EU through international modal agreements and Directive 2008/68/EC.

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legibility

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legible

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text compression reduces legibility

#### 2 Figure 4: Readability

3

1

4 A label may accommodate more language(s) than those required by the Member

5 State where the substance or mixture is placed on the market. As long as the

label complies with the (minimum) dimensions set out in **Table 6** above and as
 long as legibility of the text elements is warranted, the decision on the number of

8 languages is at the discretion of the respective supplier.

9 The exact **size of the letters** of the signal words, hazard statements, 10 precautionary statements and any supplemental information is not further defined 11 in the legal text, i.e. it is left to the discretion of the supplier to determine the 12 size of the letters that allow the label elements to be easily read. However, the 13 minimum letter size of 1.2 mm ('x-height') can be used as a reference. A supplier 14 may decide whether he wants to increase the letter size with the overall volume 15 of the packaging and dimensions of the label, or to fix it more or less for all 16 volumes and labels.

Similarly, a supplier may decide whether he prefers to have larger letter sizes for
 certain label elements while others are presented in smaller letters. Practical
 solutions often chosen are for example:

- providing the signal word "Danger" or "Warning" in larger letters on the
   label than the hazard and precautionary statements,
- presenting the obligatory label elements in larger letters than the non obligatory labelling information.

Both abovementioned solutions are in principle compatible with the CLP legal textas long as the obligatory information on the label can be easily read.

26 CLP links the **size of the hazard pictograms** to the minimum dimensions of the 27 label. Each hazard pictogram<sup>31</sup> must cover at least one fifteenth of the minimum 28 surface area of the label dedicated to obligatory labelling information. The 29 minimum dimensions of labels and pictograms are given in Table 1.3 of Annex I. 30 The minimum area of the pictogram must not be less than 1 cm<sup>2</sup>. The pictogram 31 size can be increased from the minimum dimensions where the actual label size 32 allows this. The idea behind this is that the label size and the size of the 33 pictograms should remain proportional to the size of the packaging.

34 A pictogram covering one fifteenth of the minimum surface area obtained by 35 multiplying the dimensions as defined in Table 1.3 of Annex I to CLP is considered 36 to be legible. The pictogram size has to be increased in all cases where it occupies 37 less than one fifteenth of the surface area of the label dedicated to the obligatory 38 labelling information. However, where a supplier chooses to use a label that is 39 larger than the minimum dimensions for a certain capacity of the package, it is 40 not necessary to increase also the size of the pictogram, provided it covers one 41 fifteenth of the relevant minimum dimensions.

<sup>&</sup>lt;sup>31</sup> The size of the pictogram relates here to the dimensions of the pictogram itself, and not to the size of the virtual square into which the pictogram is placed.

#### Example:

For a container of a capacity > 50 litres, but  $\leq$  500 litres, the minimum size of a pictogram must be 32 mm x 32 mm, which is one fifteenth of the area obtained by multiplying the minimum dimensions (105 mm x 148mm). (105 mm x 148 mm = 10.5 cm x 14.8 cm = 155.5 cm<sup>2</sup>. Then one fifteenth of 155 cm<sup>2</sup> = 10.36 cm2;  $\sqrt{10.36}$  cm<sup>2</sup> = 3.22cm = 32.2 mm (rounded to 32 mm) for each dimension of each pictogram). If the size of the label increases while the capacity of the container remains the same (>50 litres, but  $\leq$ 500 litres) the minimum size of each pictogram should be at least one fifteenth of the minimum area related to obligatory information required by Article 17, i.e. 32 mm x 32 mm.

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2 In principle, a label complying with the minimum dimensions set out above should 3 be large enough to contain all the label elements defined in CLP Article 17 while 4 remaining legible. Precedence must be given to the obligatory label elements and 5 any obligatory supplemental information required by CLP and other EU legislation. 6 If a supplier chooses to add non-obligatory supplemental label elements, legibility 7 may be affected when more than just a small amount of such information is 8 added. For larger amounts of non-obligatory information the supplier should 9 consider limiting this information or increasing the size of the label. When the size 10 of the label is increased, the supplier should also consider increasing the size of 11 the different obligatory label elements. This should serve the purpose of 12 facilitating their identification and maintaining their legibility. 13

Any additional area gained by increasing the size of the label can be used for further information which is considered important by the supplier. However, this should be weighed against the requirement of CLP Article 25(3), namely that nonobligatory supplemental information must not make it more difficult to identify the obligatory label elements.

# 18 5.3 Exemptions from the labelling and packaging19 requirements

Not all packages allow the necessary labelling information on the label or on the
 packaging to be displayed in line with the requirements of CLP Article 31.

CLP Article 29(1) and section 1.5.1 of Annex I provide derogations for packaging
 which is so small or in such a shape or form that it is impossible to meet the
 requirements of CLP Article 31.

If the provisions of Article 29(1) cannot be applied, CLP Article 29(2) and section
1.5.2 of Annex I allow the omission of certain label elements (see <u>sub-section</u>
5.3.2 of this guidance).

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#### 29 **5.3.1** Use of fold-out labels, tie-on tags and outer packaging

30 The packaging of a substance or mixture can be so small or in such a shape or 31 form that it is impossible to display the label elements in line with the

32 requirements of CLP Article 31. This could either be because the Member States

33 where the substance or mixture is being placed on the market require more than

34 one language on the label, or simply because the packaging is too small or

difficult to label because of its form/shape so that the full range of labelling elements even in a single language cannot be displayed.

37 In particular, it may be impossible for the label to be read horizontally when the

- package is set down normally or the label elements are of insufficient size and
   spacing as to be easily read.
- 3 In this situation the label elements defined under CLP Article 17 may be provided 4 either on
  - fold-out labels; or
- 6 tie-on tags; or
- 7 outer packaging.

8 Where one of the abovementioned alternatives is used, the label on any inner 9 packaging or the part of the fold-out label which is directly attached to the 10 packaging must contain at least: the hazard pictogram(s), the product identifier 11 referred to in CLP Article 18 and the name and telephone number of the supplier 12 of the substance or mixture. In this case the signal word, the hazard and 13 precautionary statements as well as the supplemental label information may be 14 omitted.

However, the use of the alternatives given in the above in bullet points is not allowed where a label becomes unreadable only because the supplier wishes to add more languages on a label than are required in the Member States where the substance or mixture is placed on the market.

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#### 20 5.3.1.1 Fold-out labels and tie-on tags

21 When a supplier recognises the need to use fold-out labels or tie-on tags, he 22 should consider the following aspects:

#### General requirements for fold-out labels and tie-on tags

The CLP Regulation does not foresee any separate provisions for tie-on tags or fold-out labels. Both types of label must meet the same performance standards as any other "normal" label, namely:

- the label elements must be indelible, easy to read and stand out from the background;
- the size of the pictograms must be the same as the pictograms on the equivalent, normal label.

<u>The fold-out label or tie-on tag must be securely attached to the packaging, i.e.</u> the label remains attached to the packaging during reasonably expected handling of the package.

At least the following CLP information must be firmly attached to the immediate container:

- hazard pictograms,
- the product identifier and
- the name and telephone number of the supplier of the substance or mixture.

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24 Compared to tie-on tags, the use of fold-out labels will probably be the preferred

25 option as this will offer most space for the label elements in many cases. Some

information relating to the content, quality and design of a fold-out label is given
 below. See also **Example 6** of this guidance where a multilingual, fold-out label

- below. See also **Example 6** of this guidance wherefor a mixture for supply and use is presented.
- 4 Fold-out labels can also be an option (and are in fact commonly used) where the
- 5 amount of obligatory supplemental labelling information required by other
- 6 legislation would result in a label that is too large for the packaging. Fold-out
- 7 labels may help to clearly structure the labelling information by using different
- 8 pages for different types of information (see below).
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#### 10 Content, quality and design of a fold-out label

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#### 12 <u>Content</u> 13

14 A fold-out label generally consists of three parts, namely the front page (top 15 leaf), inside page(s) and the back page (firmly attached to the packaging). 16 The label elements and information required by CLP Articles 17 and 32(6) should 17 be included on the fold-out label in a way as described below. In accordance with 18 Article 29(1) CLP, the labelling information can only be provided using fold-out 19 labels where it is not possible to meet the requirements of Article 31 for a label in 20 the languages of the Member State in which the substance or mixture is placed 21 on the market. 22

- The front page must contain <u>at least</u>:
  - the product identifier (Article 18(2) for substances, Article 18(3)(a) for mixtures); Please note that for mixtures, the product identifier on the front and back page does not need to specify all the components contributing to the classification of the mixture;
- 29 o hazard pictogram(s) (Article 17(1)(d));
- 30 signal words in all languages of the label (Article 17(1)(e);
  - nominal quantity (packages made available to the general public, unless specified elsewhere in the package) (Article 17(1)(b));
- 33 o contact details of supplier(s) (name, address and phone number)
   34 (Article 17(1)(a));
  - a reference to the full safety information inside the fold-out label, for example: "safety information, see inside" in all languages of the label or a symbol to inform a user that the label can be opened and to illustrate that additional information is available on inside pages (not in Article 17(1));
  - an abbreviation of the language (country code or language code); to avoid non-standard or confusing abbreviations it is recommended to use the language code according to e.g. ISO 639-1;
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  45 Inside page(s) should contain:
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  47 o full labelling information (except for the hazard pictogram and the supplier identification) as required by Article 17(1) of CLP (including supplemental information) for each language mentioned on the

front page and grouped by language, for example one language per page;

- an abbreviation of the language featured at the top of each of the inside pages (country code or language code).
- The **back page** should repeat the information given on the front page, except for the indication of the different languages in the inner layers.

#### 11 **Quality and design** 12

There is no standard specified in CLP for label materials and performance of foldout labels. However, sufficient quality of the fold-out label needs to be ensured.
The exact manner in which this quality is ensured should be left to the discretion of the supplier, but attention should be paid to the following aspects:

• Durability

Taking into account the different situations that may occur during normal handling and use of the packaging (the contents of the package may dissolve the printing or the users may read the label several times), it is clear that the fold-out label must be sufficiently durable to maintain its functionality under repeated use conditions (as applicable) for the entire life span of the product. This can be achieved for example by protective coating of the label and using plasticised pages.

The back page of a fold-out label should be firmly attached to the packaging to resist normal handling and use. The pages should not be easily detachable from each other.

#### Readability

The information in the fold-out label should be easily read. In the case of a booklet, page numbers can be considered. The languages should be ordered in a logical way, e.g. alphabetically.

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#### • Easy access to the information

The information in the fold-out label should be easily accessible by
allowing easy opening and reclosing of the label by the user. This can be
ensured for example by using a "Pull tab" – a small area of the label which
allows lifting it easily from its backing sheet. Easy access to the
information (and readability) can also be also improved by featuring one
language per inner page of the fold-out label.

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#### 47 **5.3.1.2 Outer packaging**

When a packaging is too small or in such a form or shape that the labelling requirements of CLP Article 31 cannot be met, one of the options provided by Article 29(1) is to provide limited labelling information on the inner packaging while the full labelling information is provided on outer packaging. This may be useful in the case of many small units within one outer packaging. In such cases the requirements that normally apply to labels (see CLP Articles 31 and 32) will also apply to the label area on the outer packaging.

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When the outer packaging option is used, a distributor or retailer has to take care
 that all the label elements required by CLP are available when he places the

3 single package units individually on the market.

#### 4 **5.3.2 Omission of certain label elements**

5 In case it is impossible to meet the labelling requirements of Article 31 (because 6 of the small size, shape or form) and the full label information<sup>32</sup> cannot be 7 provided in fold-out labels, on tie-on tags or on an outer packaging, the label 8 information may be **reduced** subject to certain conditions specified in section 9 1.5.2 of Annex I to CLP, namely for:

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- packages where contents do not exceed 125 ml and the substance or mixture is classified in one of the hazard categories listed in **Table 7** below

   this also refers to situations when a substance or mixture is re-filled into small volume bottles (125 ml or less) that are marketed afterwards, or where small volume bottles (125 ml or less) are no longer sold in outer packaging, but individually (see also sub-section 5.3.2.1 of this guidance);
  - soluble packaging for single use where contents do not exceed 25 ml (see also sub-section 5.3.2.2 of this guidance);
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21 Label information may also be adapted for: 22

- inner packaging of substances and mixtures for scientific research and development or quality control analysis where the contents do not exceed 10 ml (see also sub-section 5.3.2.3 of this guidance);
- unpackaged hazardous substances or mixtures supplied to the general public (see also sub-section 5.3.2.4 of this guidance);
- environmental labelling (see also section 5.3.2.5 of this guidance).
- 30 31 32

### 33 5.3.2.1 Labelling of packages where the contents do not exceed 34 125 ml

The label elements mentioned in column 2 of **Table 7** may be omitted from the label of packages which do not exceed 125 ml of capacity where the substance or mixture is classified for the hazard classes or categories, as listed in column 1.

However, where the substance or mixture is classified under further hazard
classes not listed, the label elements related to these other hazard classes still
need to be included. Please refer also to section 1.5.2.1 of Annex I to CLP.

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 $<sup>^{\</sup>rm 32}$  i.e. the information required by Article 17 of CLP

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#### Table 7: Labelling exemptions for packages of a capacity of 125 ml or less

Classification of the substance or mixture	Allowed omissions according to section 1.5.2 of Annex I to CLP
Oxidising gases cat. 1 (H270)	
Gases under pressure (H280, H281)	
Flammable liquids cat. 2 or 3 (H224, H225)	
Flammable solids cat. 1 or 2 (H228)	
Self-reactive substances or mixtures, types C, D, E or F (H242)	
Self-heating substances or mixtures, cat. 2 (H252)	
Substances and mixtures which, in contact with water, emit flammable gases, cat. 1, 2 or 3 (H260, H261)	
Oxidising liquids cat. 2 or 3 (H272)	hazard and precautionary
Oxidising solids cat. 2 or 3 (H272)	statements for the hazard classes listed in column 1
Organic peroxides, types C, D, E or F (H242)	<u>comment:</u> the hazard pictogram
Acute toxicity cat. 4 (H302, H312, H332) (if the substance or mixture is not supplied to the general public)	and signal word are required for the denoted hazard categories
Skin irritation cat. 2 (H315)	
Eye irritation cat. 2 (H319)	
STOT-SE cat. 2 or 3 (H371, H335, H336) (if the substance or mixture is not supplied to the general public)	
STOT-RE cat. 2 (H373) (if the substance or mixture is not supplied to the general public)	
Hazardous to the aquatic environment – short-term (acute) aquatic hazard, cat. Acute 1 (H400)	
Hazardous to the aquatic environment – long-term (chronic) aquatic hazard, cat. Chronic 1 or 2 (H410 or H411)	
Flammable gases cat.2 (H221)	precautionary statements linked to the hazard classes listed in column 1
Reproductive toxicity: effects on or via lactation (H362)	comment: the hazard statements
Hazardous to the aquatic environment – long-term (chronic) aquatic hazard, cat. Chronic 3 or 4 (H412 or H413)	and signal word must be provided as no hazard pictogram is required for the denoted hazard categories
Corrosive to metals (H290)	hazard pictogram, signal word, hazard and precautionary statements for this hazard class

1 It should be noted that the exemptions regarding the labelling of small packages

- of aerosols classified as flammable (Directive 75/324/EEC<sup>33</sup>) apply to aerosol
   dispensers.
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# 5 5.3.2.2 Labelling of soluble packaging for single use which does 6 not exceed a volume of 25 ml

7 The soluble packaging exemption applies to soluble packaging where the content 8 does not exceed a volume of 25 ml. For such packaging the CLP label elements 9 required by CLP Article 17 may be omitted provided the packaging is intended for 10 single use <u>and</u> it is contained within an outer packaging that bears all label 11 elements required under Article 17 of CLP.

The exemption applies in cases where the substance or mixture contained is classified <u>exclusively</u> for one or more of the hazards categories in sections 1.5.2.1.1 (b), 1.5.2.1.2 (b) or 1.5.2.1.3 (b) of Annex I to CLP (see **Table 7** above). However, this exemption does not apply to substances and mixtures within the scope of Regulation (EC) 1107/2009 (plant protection products) or Regulation (EU) No 528/2012 (biocidal products).

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# 19 5.3.2.3 Labelling of inner packaging where the contents do not20 exceed 10 ml

The CLP label elements required by CLP Article 17 may be omitted from the innerpackaging provided that all the following conditions are met:

- the content of inner packaging does not exceed a volume of 10 ml;
- the substance or mixture is placed on the market for supply to a
   distributor or downstream user for scientific research and development
   (SR&D)<sup>34</sup> or quality control analysis; and
- the inner packaging is contained within an outer packaging that contains
  all label elements required by Article 17.

However, it should be noted that the label on inner packaging must contain the
product identifier and (if appropriate) the hazard pictograms; GHS01, GHS05,
GHS06 and/or GHS08. In case more than two pictograms are assigned, GHS06
and GHS08 may take precedence over GHS01 and GHS05.

The exemption does not apply to substances and mixtures within the scope of
 Regulation (EC) 1107/2009 (plant protection products) or Regulation (EU) No
 528/2012 (biocidal products).

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<sup>&</sup>lt;sup>33</sup> Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers, as amended by Commission Directive 94/1/EC and Commission Directive 2008/47/EC

<sup>&</sup>lt;sup>34</sup> For more information on substances manufactured, imported or used in scientific Research and Development (SR&D) please consult ECHA *Guidance on Scientific Research and Development (SR&D) and Product and Process Orientated Research and Development (PPORD).* 

#### 1 **5.3.2.4 Unpackaged hazardous substances or mixtures supplied to** 2 **the general public**

3 Labelling information about unpackaged chemicals sold to the general public must 4 be made available to the customer, e.g. on an invoice or bill, see CLP Article 5 29(3). When the purchase of such substances or mixtures occurs at a different 6 point in time than their delivery to the customer, one might also consider 7 providing a leaflet which contains the relevant labelling information when 8 delivering the substance or mixture, or sending the information electronically 9 before or upon delivery. Article 29(3) provisions apply to substances listed in Part 10 5 of Annex II to CLP). 11 5.3.2.5 Environmental labelling

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13 CLP includes the possibility to introduce exemptions from certain provisions on 14 environmental labelling for certain mixtures classified as hazardous to the 15 environment where it can be demonstrated that there would be a reduction in the 16 environmental impact, see CLP Article 29(4). However, no such exemptions or 17 specific provisions have been agreed to date. Once determined in accordance with 18 the procedure referred to in CLP Articles 53 and 54, such exemptions or specific 19 provisions would be defined in Part 2 of Annex II to CLP.

### 5.4 Interaction between the CLP and the transport labelling rules

### 5.4.1 Specific rules for labelling of outer packaging, inner packaging and single packaging

24 Article 33 of the CLP Regulation sets out specific rules for situations where the 25 packaging of hazardous substances and mixtures is also required to meet the 26 labelling provisions in accordance with the rules on the transport of dangerous 27 goods. The transport labelling provisions are set out in the UN Recommendations 28 on the Transport of Dangerous Goods – Model Regulations, Transport labelling as 29 referred to in CLP Article 33 includes all labels and marks required by e.g. 30 Directive 2008/68/EC<sup>35</sup>, for example the mark for environmentally hazardous 31 substances, elevated temperature marks and limited/exempted quantities marks. 32 A basic principle of CLP is not to override any labelling required by the transport 33 rules while maintaining essential hazard information on the relevant layer(s) of 34 packaging.

CLP labelling is normally required on every layer of a packaging intended for supply and use.

Transport labelling will have to appear on the outer packaging of hazardous substances and mixtures if these are "dangerous goods" according to the rules on the transport of dangerous goods. In such cases, a CLP label may also appear on an outer packaging.

Single packages need to carry both the CLP label and transport labelling. If a CLP hazard pictogram on single or outer packaging relates to the same hazard as in the rules for the transport of dangerous goods, the CLP pictogram may be omitted to avoid unnecessary double labelling.

<sup>&</sup>lt;sup>35</sup> Directive 2008/68/EC for the inland transport of dangerous goods (road and rail).

1 When a package consists of an outer and an inner packaging, together with any 2 intermediate packaging, and the outer packaging meets the labelling provisions in 3 accordance with the rules on the transport of dangerous goods, the hazard 4 pictograms required by CLP do not need to appear on the outer packaging. As 5 mentioned above, the limited/excepted quantity marks are considered as 6 transport labelling. Therefore, a CLP label is not required when those marks are 7 carried on the outer packaging. CLP labelling may however be used if desired, 8 according to Article 33(1) of CLP. 9 10 Where the outer packaging is transparent, all CLP label elements can be omitted 11 from it where the CLP label beneath the transparent layer is clearly visible (Article 12 33(2) of CLP). 13 The legal requirements of CLP Article 33 and the decisions involved when dealing 14 with them are depicted in the **Figure 5**. 15 16 17 18 Inner (and any Single packaging intermediate) and outer packaging 20 21 22 Transport Transport label label No 23 required? required Yes No 24 Yes ? 25 Transparent outer CLP label Transport label Transport label on outer packaging? packaging; CLP label on and CLP label No Yes 27 inner (and any CLP pictograms intermediate) 28 covered by an packaging. equivalent CLP label on CLP label on transport The outer packaging inner (and any inner (and pictogram may be may additionally be CLP any intermediate) omitted labelled. If so, the CLP intermediate) packaging pictograms covered by 31 and outer CLP label on an equivalent transport packaging 32 outer packaging pictogram may be (see also submay be omitted omitted. 33 section 5.4.2 below). 34 35 36 37 38 39 40 Figure 5: Decision flowchart for the application of CLP and transport

41 labelling for single packaging (left) and combination packaging (right)

### 5.4.2 Packaging used for consolidation of supply packaging during transport

3 The CLP Regulation sets general packaging standards for suppliers to ensure the 4 safe supply of hazardous substances and mixtures.

- 5 'Packaging' is defined in CLP as "one or more receptacles and any other
- 6 components or materials necessary for the receptacles to perform their
- 7 containment and other safety functions". This means that the packaging of a
- 8 substance or mixture can comprise multiple layers, for instance a bottle and a9 box.
- 10 CLP rules apply to all layers of packaging used for supply purposes. Any further 11 packaging may then fall under the definition given in the transport legislation: 12 *"the outer protection of a composite or combination packaging together with any 13 absorbent material, cushioning and any other components necessary to contain 14 and protect inner receptacles or inner packaging"*. The function of outer 15 packaging fulfilling this definition will remain the same whether or not a transport 16 label is affixed to it.
- 17 Article 33(2) of the CLP should be interpreted as meaning that labelling according

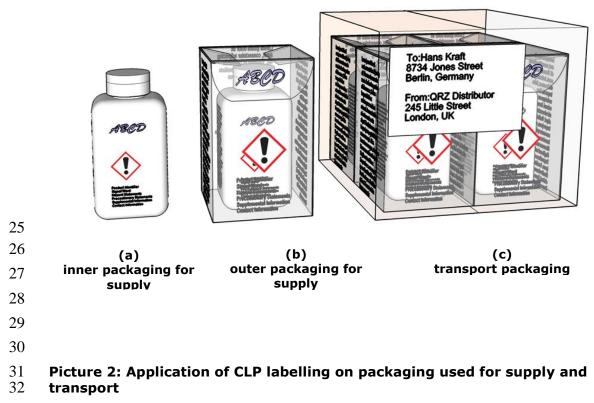
18 to CLP is required for the outermost layer of packaging that remains when the

19 transport packaging is removed (and, as the case may be, to the inner and

intermediate packaging). This type of 'outer' packaging (illustration (b) on **Picture 2**) requires a CLP label (see also sub-sections 5.3.1.2 and 5.4.1 of t

Picture 2) requires a CLP label (see also sub-sections 5.3.1.2 and 5.4.1 of this guidance).

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Normally, suppliers, including distributors, use one and typically more additional layers of packaging to make the transport of multiple chemicals more convenient and to ensure that the correct products are delivered to each location in good condition. Such **transport packaging** (illustration **(c)** on **Picture 2**), used for the purpose of:

- protection of supply packages during transport and handling
- consolidation,
- deconsolidation,

#### 9 is thus **outside the scope of CLP** and **does not** require a CLP label.

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11 Where substances and mixtures are stored on site without being removed from 12 their transport packaging as they are awaiting further transport, other 13 labelling obligations outside the scope of CLP and transport legislation may 14 continue to apply, for example, a workplace risk assessment under the scope of 15 the worker protection Framework Directive (89/391/EEC) and associated individual directives including Chemical Agents Directive (98/24/EC<sup>36</sup>), 16 Carcinogens and Mutagens Directive (2004/37/EC<sup>37</sup>) and, as appropriate, the 17 18 safety and/or health signs according to Directive 92/58/EC<sup>38</sup>. However, once the 19 substances and mixtures are no longer in transport they must be removed 20 from transport packaging to enable the CLP label to be clearly seen, or a CLP 21 label must be added to what was previously the transport packaging. 22 23 24 25 26 27 28 29 30 31 32 33

 $<sup>^{36}</sup>$  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (OJ L 131, 5.5.1998, p. 11–23), amended by Directive 2007/308/EC and Directive 2014/27/EU.

<sup>&</sup>lt;sup>37</sup> Directive 2004/37/EC of the European Parliament and the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (OJ L 158, 30.4.2004, p. 50) amended by Directive 2007/308/EC and Directive 2014/27/EU;

 $<sup>^{38}</sup>$  Council Directive 92/58/EEC of 24 June 1992 on the minimum requirements for the provision of safety and/or health signs at work (OJ L 245, 26.8.1992, p.23), amended by Directive 2007/308/EC and Directive 2014/27/EU.

### 1 6. Example labels

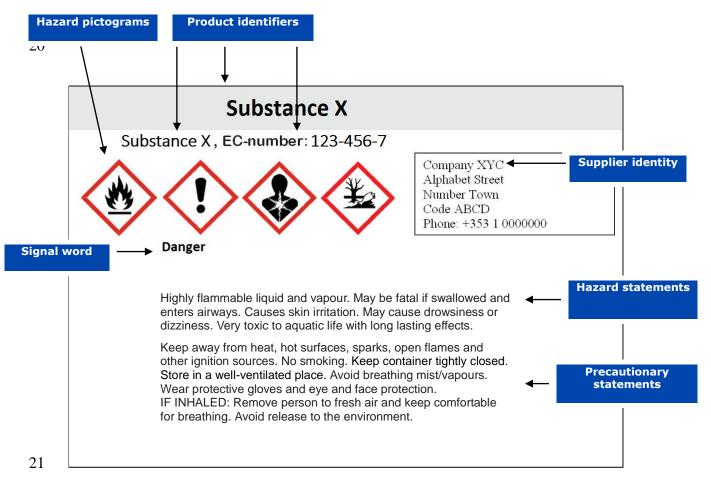
2 In this section 11 examples are provided to illustrate different situations that may3 be encountered when designing labels.

Please note that each of the labels below serves only as an example of how to arrange the elements on the label in a given situation. The examples given are **not exhaustive** or mandatory in all aspects and do not reflect specific uses. The dimensions of labels and label elements shown below are not necessarily the actual dimensions.

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# 10 Example 1: Single language label for a substance (not for the11 general public)

- 12 This example represents a simple label for a substance for supply and use which
- 13 takes into account the CLP label elements only. It shows the CLP terminology and
- 14 pictograms in accordance with CLP Article 17(a) and (c) to (g), i.e. the product
- 15 identifiers, the identity of the supplier, the signal word, the hazard pictograms,
- 16 the hazard and the precautionary statements. As the substance is not supplied to
- 17 the general public, the nominal quantity of the substance contained in the
- 18 package is not required on the label.

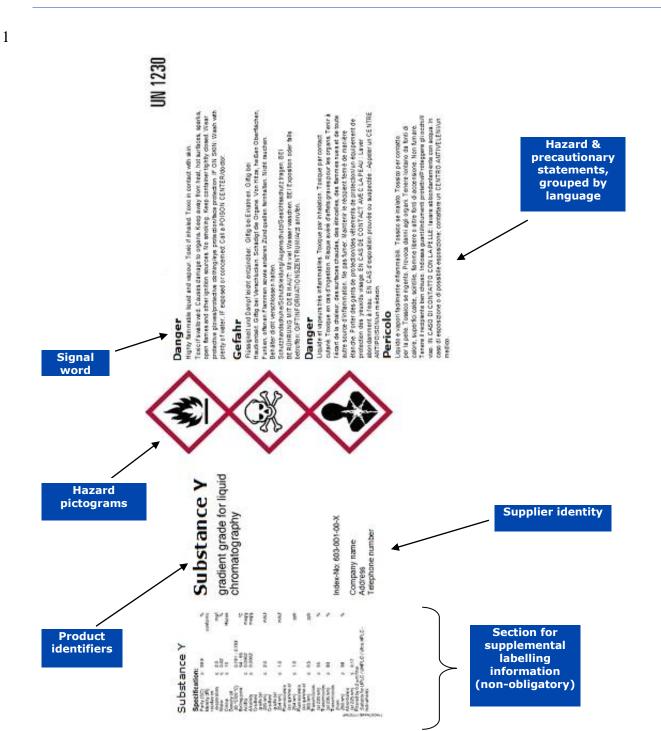


1 Considering the industrial/professional use the combined statement P301 + P310

- 2 has been omitted from the label. To further reduce the number of the P-
- 3 statements and the amount of digestible information on the label, the statements
- 4 P391 has also been omitted from the label, as the prevention statements for the
- 5 physical and health hazards appear to contain the more urgent advice for the
- 6 label. The final selection of the P-statements resulted in a six P-statements
- 7 compared to the starting set of eight P-statements.
- 8 The selected P-statements would have to be included in the SDS, under heading
- 9 2.2 ("Label elements"). The de-selected statements can be introduced under the
- 10 relevant headings of the SDS to provide the industrial or professional user with
- 11 sufficient information to handle the substance safely.

# Example 2: Multi-language label for a substance containing non-obligatory supplemental information (not for the general public)

- The example label given below represents a multi-language label for supply and use. It shows the CLP terminology and pictograms in accordance with CLP Article 17 (a) and (c) to (h), i.e. the product identifier, the identity of the supplier, the hazard pictograms, the signal words and the hazard and precautionary
- 19 statements in four languages.
- As the substance is not supplied to the general public, the nominal quantity of the substance contained in the package is not required on the label.
- In accordance with CLP Article 32(3), the hazard and precautionary statements of
  one language are located together on the label. A section for supplemental
  labelling is included on the left-hand side of the label including non-obligatory
  supplemental labelling information.
- 26 As to the lay-out, the label is an authentic label designed for a 2.5 litre bottle. 27 Given that the real dimensions are slightly larger than depicted here, there is still 28 potential to optimise the structuring of the information, e.g. by using a more 29 prominent place for the signal word or larger letters for H- and P-statements. 30 Based on the minimum dimensions for the label area, which would be at least 52 31 mm x 74 mm, the size of each of the pictograms is supposed to be at least 257 32 mm<sup>2</sup>, corresponding to a side length of 16 mm, on the real label (sub-section 5.2 33 of this guidance).
- If the section for supplemental labelling is increased (for example to incorporate information related to the use of the substance), the overall area of the label and the size of its elements may have to be increased as well, in particular the letter size of the signal words, hazard and precautionary statements. Such an increase would warrant the legibility of the obligatory label information which appears in multiple languages. In this case it may be wise also to increase the size of the pictograms.
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### 1 Example 3: Single language label for a mixture containing

### 2 both obligatory and non-obligatory supplemental information 3 (supplied to the general public)

4 The example label given below illustrates the supply and use label for a typical 5 consumer product (detergent).

6 All obligatory labelling information is shown, i.e. the product identifiers (trade 7 name and designation of the mixture; one of them would have been sufficient),

8 the identity of the supplier, the signal word, the hazard and precautionary

9 statements and the obligatory supplemental information, in accordance with

10 Regulation (EC) No 648/2004 on detergents. Please note that supplemental label 11 information according to CLP is grouped together whilst the other supplemental

12 information (in this case the bar code) is located in another place.

No P-statement on disposal is given as this is not required for a mixture classifiedas eye irritant.

15 As the product is supplied to the general public, its nominal quantity is also

provided on the label. Beyond the obligatory supplemental information, also somenon-obligatory supplemental information is shown.

18 This label clearly separates the obligatory information as required by CLP and

- 19 other Community legislation from the non-obligatory elements. The former is
- 20 delineated by two text boxes, with the "CLP box" being located in a central, eye-
- catching position on the label. The non-obligatory label elements can be found in
   the lower part of the label and in the upper part, under the headline "instructions
   for use".

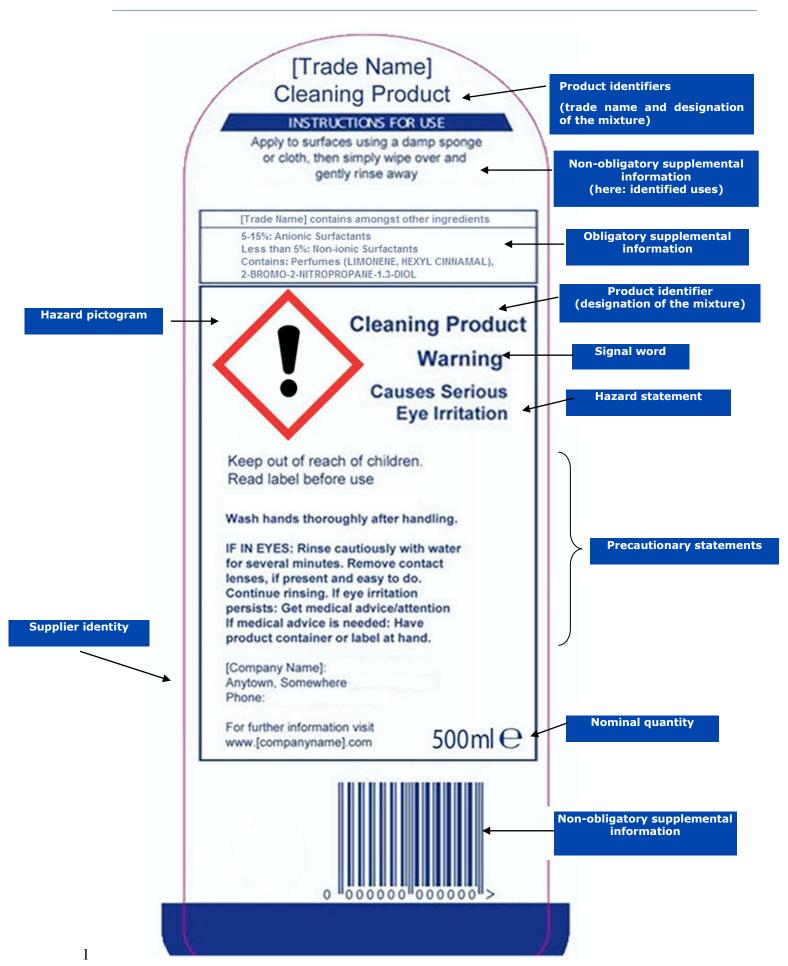
The label as depicted here has a real size of 165 mm x 72 mm; the area of the label that contains the obligatory label elements, i.e. the two boxes and the nominal quantity, is about 98 mm x 72 mm. In principle the area covered by the text block "For further information visit ..." must be subtracted; on the other hand, approximately the same area covered by the line "trade name" should be added, so there is overall no change.

The label is larger than the minimum dimensions required by CLP, which is at least 52 mm x 74 mm for a 500 ml bottle. The pictogram is larger than the required minimum area of  $1 \text{ cm}^2$ .

The label shown is primarily drafted for inner packaging. If the chemical is contained in combination (= inner + outer) packaging, the same information has to be shown on the outer packaging, unless the information on the inner packaging can be seen through the outer packaging.

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#### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

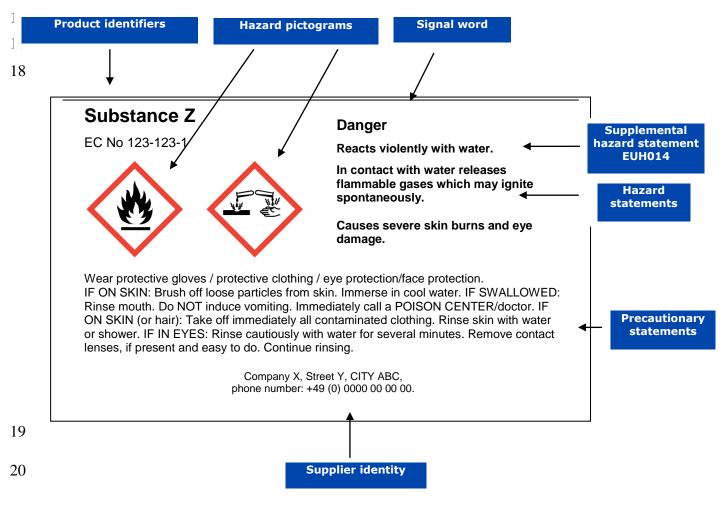


# Example 4: Single language label for a substance containing supplemental hazard statements (not for the general public)

The example below illustrates a label for a substance for supply and use. A harmonised classification (Water-react. cat. 1, Skin corr. cat. 1B) as well as the supplemental hazard statement EUH014 are assigned through Annex VI to CLP. No other available, reliable information was found that identified any further hazards. The substance is not intended to be used by the general public; it is supplied in a 1 litre package.

9 All obligatory labelling information is shown, i.e. the product identifiers, the 10 identity of the supplier, the hazard pictograms, the signal word, the hazard and 11 the supplemental hazard statement EUH014, in accordance with Table 3.1 of 12 Annex VI to CLP. Although EUH014 is supposed to be supplemental information 13 only, it is intentionally placed close to the regular CLP hazard statements to

14 reinforce the message provided by the latter.



#### Example 5: Multi-language label for a mixture containing 1

#### 2 both obligatory and non-obligatory supplemental information (supplied to the general public) 3

4 Example 5 represents a draft multi-language label for a typical consumer 5 chemical (decorative paint) for supply and use.

6 All obligatory labelling information is shown, i.e. the product identifiers, the 7 identity of the supplier, the signal word, the hazard and precautionary statements

8 and the obligatory supplemental information, in particular information in

9 accordance with Directive 2004/42/EC on the limitation of emissions of volatile

10 organic compounds (VOC) due to the use of organic solvents in certain paints and

11 varnishes and vehicle refinishing products.

12 In accordance with CLP Article 32(3), the hazard and precautionary statements of 13 one language are located together on the label. As the chemical is supplied to the 14 general public, its nominal quantity is also provided on the label. Beyond the 15 obligatory label elements, non-obligatory supplemental information is shown.

16 This example label separates the CLP label elements from the supplemental 17 information. The CLP label elements are located in a more eye-catching position

18 on the label while the supplemental information can be found rather in the

19 margins of the label. The texts reflecting the supplemental information appear in

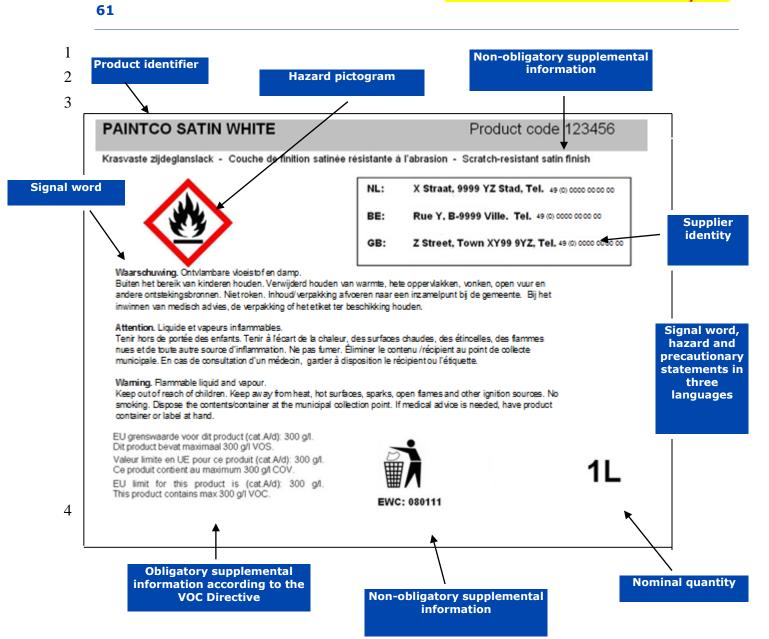
20 slightly smaller letters than the CLP label elements.

The size of this label is intended to be 125 mm x 150 mm when applied on the 21 22 packaging. This means that the real label will be considerably larger than the

23 minimum label size for a 1 litre package (52 x 74 mm) required under CLP. The

24 pictogram size of 19 x 19 mm is less than  $1/15^{th}$  of the area of the whole label,

25 but greater than 1/15<sup>th</sup> of the area dedicated to the information required by 26 Article 17.



### 1 **Example 6: Fold-out label for a mixture (supplied to the** 2 **general public)**

3 The example below represents a multilingual, fold-out label for a mixture for 4 supply and use, intended for the general public.

5

6 The label for this mixture is required to bear a large number of obligatory CLP 7 label elements, namely three hazard pictograms, three hazard statements and 8 numerous precautionary statements subject to the principles of precedence. It 9 was impossible to put all these label elements on the immediate container due to 10 its shape and size (plastic container of 100 ml capacity). The supplier cannot accommodate on a standard label the required information in the official language 11 12 of the Member State where the product is placed on the market (Poland). 13 Therefore, the supplier has chosen to use a fold-out label. The supplier also wants 14 to include two additional languages. The label elements are included on the label 15 in the following way: 16

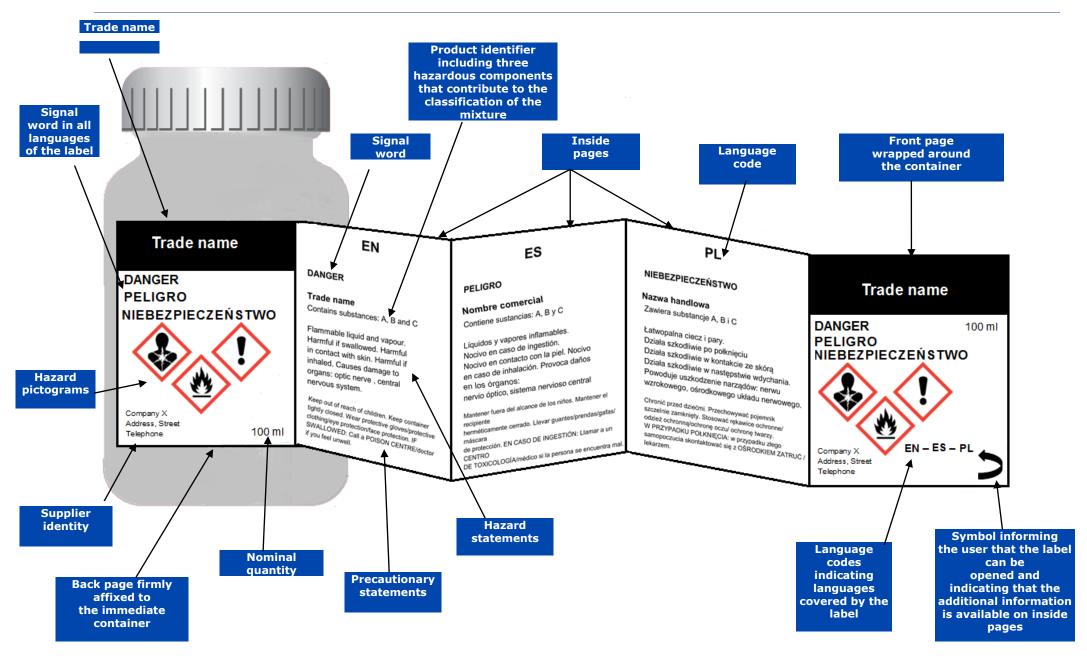
#### 17 Front page

- 18 trade name or designation,
- hazard pictograms,
- signal words in all languages of the label,
- nominal quantity, as the mixture is made available to the general public,
- contact details of supplier,
- reference to the full safety information inside (in this case the front page contains the symbol of an arrow to illustrate that the full safety information is available on inside pages),
- country codes indicating which languages are covered by the label 27

#### 28 Inside pages

33

- full product identifier (including hazardous compounds A, B and C in this particular case),
- signal word,
- hazard statements,
  - precautionary statements,
- The full safety information on the inside pages is given in each language
  mentioned on the front page and also grouped by language. The country
  codes are featured on the top of each inner page to enable the user to quickly
  identify his language.
- 39 **Back page** (attached to the immediate container)
- 41 trade name or designation,
- hazard pictograms,
- 43 signal word,
- nominal quantity,
- contact details of supplier.



### **6.1 Packaging that is small or difficult to label**

2 The example labels in this sub-section are authentic; they are applied on inner 3 packaging only because the package is transported in larger consignments with 4 specific outside labelling in accordance with the rules on the transport of 5 dangerous goods. Please note that the labelling exemptions only apply if the alternative labelling on fold-out labels, tie-on tags or outer packaging is 6 7 technically not feasible. 8 9 Example 7: Substance in a 8 ml bottle (not for the general public) 10

The example given below represents a two-language label in Finnish and Swedish
for small packaging for the substance. Both languages are required in Finland.
According to Annex VI to CLP, the substance is assigned the following
classifications:
Flam. Liq. 2 H225 Highly flammable liquid and vapour

17 18 19 20	Repr. 2	H361 Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard))
21	Asp. Tox. 1	H304 May be fatal if swallowed and enters airways
22 23 24 25	STOT-RE 2	H373 May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
26	Skin Irrit. 2	H315 Causes skin irritation
27	STOT SE 3	H336 May cause drowsiness or dizziness
28	Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects

29

Based on CLP Article 17, many labelling elements would be required. The bottle
containing the substance is placed on the market individually. Since it is assumed
for this example that the labelling information cannot be accommodated on a
fold-out label, tie-on tag or on outer packaging, the supplier is allowed to apply
the small packaging exemptions outlined in section 1.5.2 of Annex I to CLP.

Accordingly, the hazard and precautionary statements pertaining to the followinghazard classes and categories:

37 Flam. Liq. 2, STOT-RE 2, Skin Irrit. 2, STOT-SE 3 and Aquatic Chronic 2

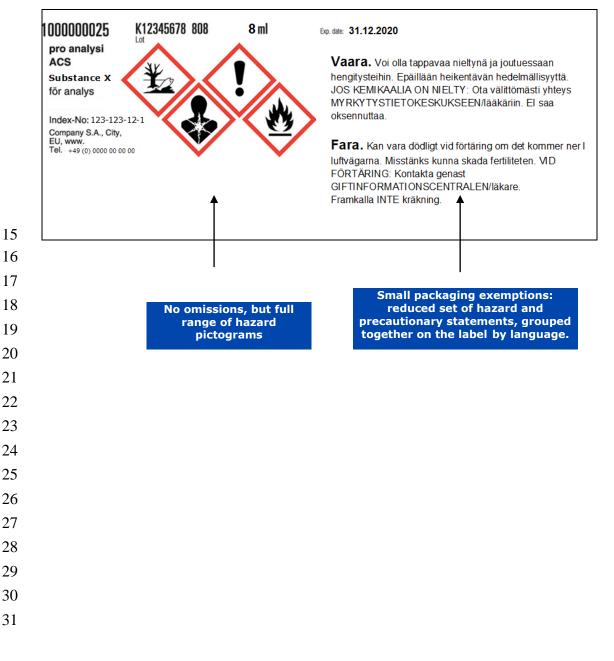
38 may be omitted from the label. However, and in line with CLP, the hazard

pictograms: GHS02, GHS07, GHS08 and GHS09 were retained for these hazards.

No small packaging exemptions apply to the following hazards classes and
categories: Repr.2 and Asp. Tox. 1. This means that the pictograms and the
hazard and precautionary statements pertaining to these hazard classes and
categories have been retained.

1 The precautionary statements have obviously been reduced, following CLP Article

- 2 22 and 28. For example, the statement P501 (Dispose of contents/container to ...)
- 3 was not included because the substance is neither supplied to the general public
- 4 nor are there specific disposal requirements above the normal expectation for the
- 5 disposal of chemicals (see also <u>section 7</u> of this guidance). Out of a set of
- 6 originally 20 different precautionary statements, finally only one single
- 7 (combination) statement, namely P301+P310+P331 (IF SWALLOWED:
- 8 Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting.) remains on
- 9 the label.
- 10 In accordance with CLP Article 32(3), the hazard statements of one language as
- 11 well as the precautionary statements, respectively, are located together on the
- 12 label. Finally, the signal word "Danger" (Finnish: Vaara; Swedish: Fara) was
- 13 selected, in line with the applicable precedence rule.
- 14



1 If the real dimensions of the label are  $32 \times 95$  mm it can accommodate four 2 pictograms of the required minimum size of 1 cm<sup>2</sup>. This may not always be 3 possible for even smaller packaging volumes, e.g. a bottle volume of 4 ml, see 4 below. In order to maintain the required minimum size of  $1 \text{ cm}^2$  for the hazard 5 pictograms in such cases, either the size of the label or the volume of the bottle as such will have to be increased. It may not be warranted to reduce the letter 6 7 size of the texts as this will very probably decrease their legibility. 8 9

- 10 11 Due to space constraints on small volume 12 packaging, pictograms of the required minimum size of 1 cm<sup>2</sup> cannot always be 13 accommodated. In this case either the size of the label or the volume of the bottle will have to be increased. 4 ml 100000025 K12345678 808 4 ml to me: 31.12.2020 pro analysi ACS Vaara. Vo ola ta Substance X för analys Index-No: 123-123-12-1 Company S.A., City, 807 EU, www.company.com Tel. +41(0)1234 56-7890

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#### 1 Example 8: Hazardous solid substance in a 100 ml bottle (not 2 intended for the general public)

3 This example represents a one-language label for small packaging for a solid 4 substance Y which is assigned the following classifications:

6	Ox. Sol. 2	H272 May intensify fire; oxidiser	
7 8 9	Carc. 1B	H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	
10 11 12	Muta 1B	H340 May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	
13 14 15 16	Repr. 1B	H360 May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	
17	Acute Tox. 2 (inhalation)	H330 Fatal if inhaled	
18	Acute Tox. 3 (oral)	H301 Toxic if swallowed	
19 20 21 22 23	STOT RE 1	H372 Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	
24	Acute Tox. 4 (dermal)	H312 Harmful in contact with skin	
25	Skin Corr. 1B	H314 Causes severe skin burns and eye damage	
26 27	Resp. sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled	
28	Skin sens. 1	H317 May cause an allergic skin reaction	
29	Aquatic Acute 1	H400 Very toxic to aquatic life	
30 31	Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects	
32			
33 34 35	Pursuant to CLP Article 17, a lot of labelling information would be required. Similarly to the previous example, it is assumed that the supplier is allowed to use the small packaging exemptions outlined in section 1.5.2 of Annex I to CLP.		

Substance Y is not presumed to be listed in Annex VI to CLP, nor in the
Classification and Labelling Inventory. Therefore, only the product identifiers
referred to in CLP Article 18(2)(c) need to be provided, i.e. the CAS number (if
available, see CLP Article 18(2)(d)) and the IUPAC or another international name.

40

41 In accordance with the small packaging exemptions outlined in section 1.5.2 of

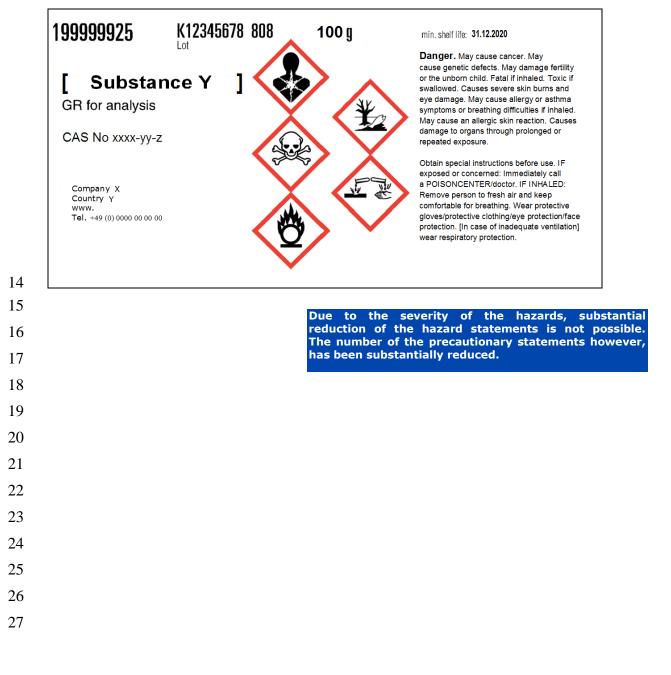
42 Annex I to CLP, only the hazard and precautionary statements pertaining to the 43 following hazard classes and categories:

44

Ox. Sol. 2, Acute Tox. 4, Aquatic Acute 1, and Aquatic Chronic 1

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- 1 may be omitted from the label. This means that for all the other hazards listed
- above all the label elements that are required under CLP Title II have to appearon the label.
- 4 The precautionary statements on the example label below start with "Obtain
- 5 special instructions before use." A significant reduction has been performed for
- 6 the precautionary statements, based on Articles 22 and 28 of CLP. After
- 7 application of the small packaging exemptions and the selection of the most
- 8 appropriate set of precautionary statements, only five (combined) statements
- 9 were chosen for the label, out of about 30 precautionary statements.
- 10 In addition to the hazard and precautionary statements, five different hazard
- 11 pictograms are required for the label, namely GHS03, GHS05, GHS06, GHS08 and
- 12 GHS09.
- 13



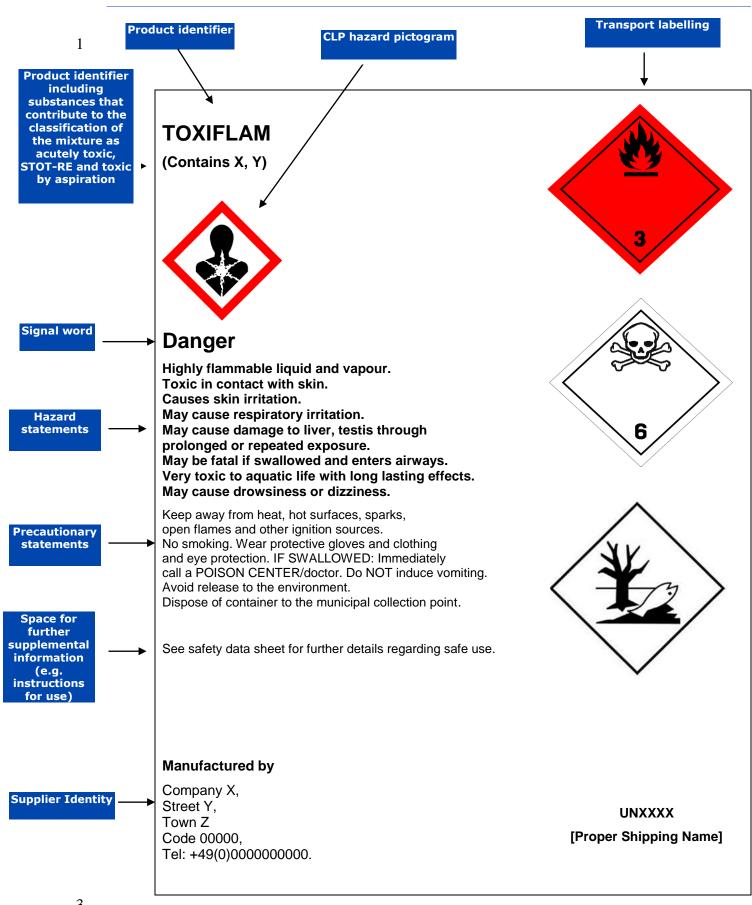
# Example 9: Supply and transport label for a single package (not intended for the general public)

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4 This example illustrates the provisions of CLP Article 33(3) and represents a label 5 for a hazardous mixture which is assigned the following classifications:

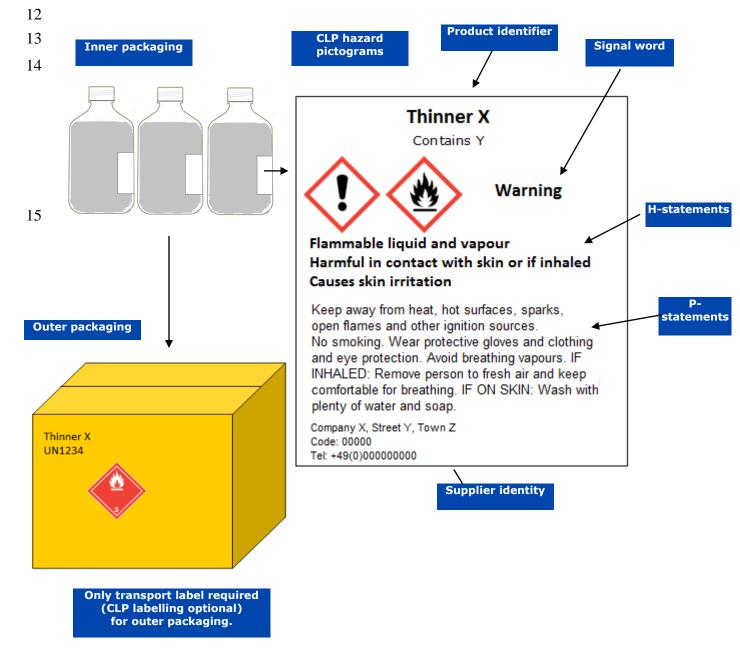
- 6 Flam. Liq. 2 H225 Highly flammable liquid and vapour
- 7 Acute Tox. (dermal) 3 H311 Toxic in contact with skin
- 8 Skin irrit. 2 H315 Causes skin irritation
- 9 STOT SE 3 H335 May cause respiratory irritation
- 10 STOT SE 3 H336May cause drowsiness or dizziness
- 11STOT RE 2H373 May cause damage to organs (state all organs12affected, if known) through prolonged or repeated13exposure (state route of exposure if it is conclusively14proven that no other routes of exposure cause the15hazard)
- 16 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways
- 17 Aquatic Acute 1 H400 Very toxic to aquatic life
- 18Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting<br/>effects
- The mixture is intended to be supplied in single packaging, such as a 200 litre drum. This means that both the CLP and the transport label elements must be shown on the packaging. The mixture is not intended to be used by the general public.
- In this case the supplier has chosen to include the transport label elements and
  marks together with the CLP labelling elements on a joint label. This common
  label would be large enough to conform to the specifications set out in ADR (e.g.
  minimum dimensions of 100mm x 100mm).
- In relation to the CLP hazard pictograms GHS06 and GHS07, only GHS06 needs
  to be displayed, in accordance with the precedence rule set out in CLP Article
  26(1)(b). However, the supplier has omitted the CLP hazard pictograms GHS06
- and GHS02, as the underlying hazard classes and categories are already covered
- 32 by the corresponding transport pictograms.

#### **Guidance on Labelling and Packaging** Draft PUBLIC version 3.0 January 2017



### 1 **Example 10: Labelling for a mixture that is transported on**

- 2 land in outer and inner packaging (not intended for the
  3 general public)
- 4 This example illustrates the labelling of a transported mixture classified as:
- 5 Flam. Liq 3 H226 Flammable liquid and vapour
- 6 Acute Tox. 4 H312 Harmful in contact with skin
- 7 Acute Tox. 4 H332 Harmful if inhaled
- 8 Skin Irrit. 2 H315 Causes skin irritation
- 9 The mixture is contained in an inner packaging (bottles) which are in turn
- 10 contained in an outer packaging (box) which is not transparent. The mixture is
- 11 not intended to be used by the general public.

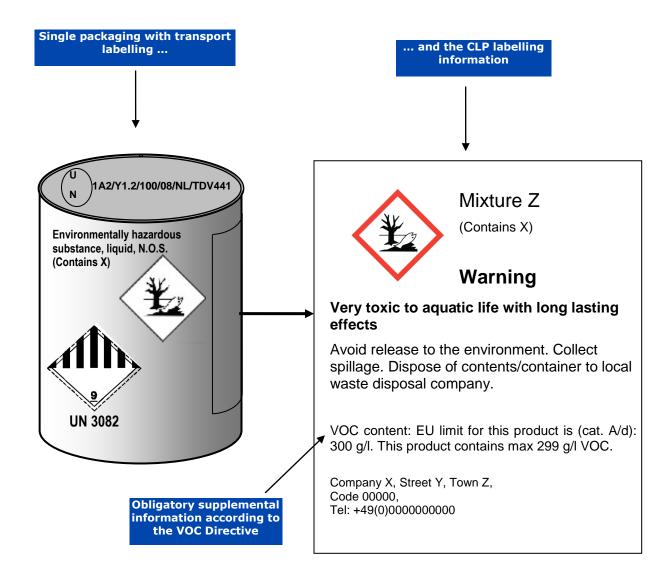


#### Example 11: Labelling for a mixture that is transported on 1 2 land in single packaging (not intended for the general public)

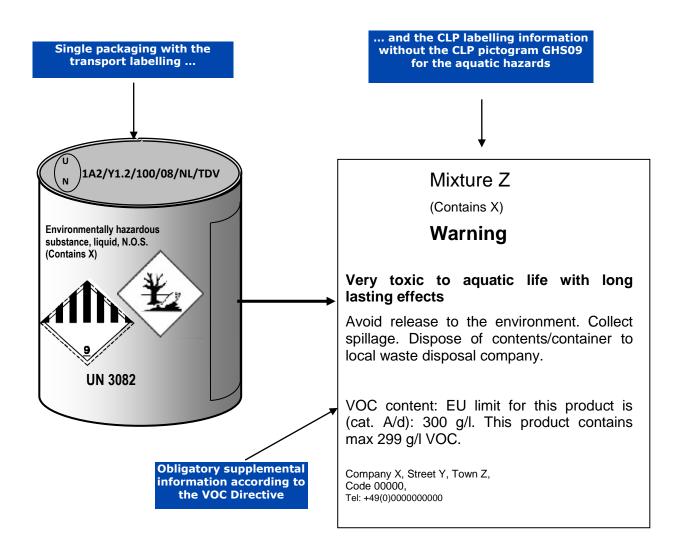
3 This example illustrates the provisions related to the labelling of single packaging

- 4 in accordance with CLP Article 33(3). It is an example of a chemical that is
- 5 classified and labelled in accordance with the rules on the transport of dangerous goods and under CLP. The chemical is transported on land in single packaging
- 6 7
- (drum). It is not intended to be used by the general public.
- 8 In this example the full CLP labelling information is provided by means of a
- 9 separate label, in addition to the transport labelling information (version 1).
- 10 The CLP hazard pictogram GHS09 may be omitted from the packaging because it
- relates to the same hazards as the "dead tree dead fish" transport mark 11 12 (version 2).

#### 13 Version 1:



#### 1 Version 2:



## **6.2 Specific case: labelling of two-component products**

In certain specific cases the packaging of the product can be so unique that it is difficult to meet the CLP labelling requirements. An example of such a situation has been given below. Please note that the example only illustrates the general aspects of labelling of two component products and is not intended to present the correct selection of appropriate label elements.

7

**Picture 1. Two-component adhesive sold as a kit** (below) shows an example of a popular two-component adhesive consisting of two mixtures, namely an epoxy resin (Part A) and a hardener (Part B). The two mixtures are placed in separate containers which are fixed together and sold as a kit in transparent outer packaging. When used, the content of both containers is mixed by extrusion. Part A and Part B react to produce a final mixture which can be used as an adhesive for a wide range of materials.



15

In this type of situation two separate labels need to be affixed to the containers (one label for each mixture (in a container)). The hazard information provided on the labels must relate to the form/physical states in which both mixtures (Part A and Part B) are placed on the market. The outer packaging of the whole kit need not be labelled, as it is transparent and permits the inner packaging (both containers) to be clearly seen.

22

If the product formed during end-use is hazardous (with different properties to the mixtures in the containers), sufficient instructions to enable safe use must be provided to the user. The instructions can for example be provided on the label or as a separate leaflet in the package.

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If such a product is not intended for the general public, two separate safety data sheets should be provided to enable the users to meet their responsibilities in relation to the management of risks arising from the use of the reaction product

- 31 that occur upon the end use of the two mixtures (i.e. the adhesive).
- 32 As the adhesive in the example is also classified as hazardous, the relevant
- information about the risk management measures should be provided in theSDSs.

**Please note:** a case-by-case judgement may be necessary when determining the labelling requirements for similar, unique packagings. The information should not confuse the user and the label should be easily understandable.

# **7. Guidance on the selection of precautionary**

2 statements for the CLP hazard label

## 3 7.1 Introduction

Based on the UN GHS, the CLP Regulation assigns precautionary statements to all
hazard classes for the purpose of the safe supply and use of a substance or
mixture. Based on CLP Article 4, suppliers have to select precautionary

7 statements for the CLP hazard label. Suppliers can be the following:

- manufacturers or importers of substances,
- importers of mixtures;
- downstream users of substances or mixtures (including formulators),
- distributors (including retailers) of substances or mixtures, and
- producers or importers of explosive articles as defined in Part 2.1 of Annex I to CLP.

14 The selection of precautionary statements must be done based on CLP Articles 22 15 and 28 and CLP Annex IV:

#### Article 22

#### Precautionary statements

- 1. The label shall include the relevant precautionary statements.
- 2. The precautionary statements shall be selected from those set out in the tables in Parts 2 to 5 of Annex I indicating the label elements for each hazard class.
- 3. The precautionary statements shall be selected in accordance with the criteria laid down in Part 1 of Annex IV taking into account the hazard statements and the intended or identified use or uses of the substance or the mixture.
- 4. The precautionary statements shall be worded in accordance with Part 2 of Annex *IV*.

#### Article 28

#### Principles of precedence for precautionary statements

- 1. Where the selection of the precautionary statements results in certain precautionary statements being clearly redundant or unnecessary given the specific substance, mixture or packaging, such statements shall be omitted from the label.
- 2. Where the substance or mixture is supplied to the general public, one precautionary statement addressing the disposal of that substance or mixture as well as the disposal of packaging shall appear on the label, unless not required under Article 22. In all other cases, a precautionary statement addressing disposal shall not be required, where it is clear that the disposal of the substance or mixture or the packaging does not present a hazard to human health or the environment.
- 3. Not more than six precautionary statements shall appear on the label, unless necessary to reflect the nature and the severity of the hazards.

#### Annex IV

"In selecting the precautionary statements in accordance with Articles 22 and 28(3), suppliers may combine the precautionary statements in the tables [of Annex IV], having regard to clarity and comprehensibility of the precautionary advice. (...)."

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1 Neither the UN GHS nor the CLP Regulation provide for clear-cut rules on how to

2 select precautionary statements for the label (apart from the provisions of Articles

3 22 and 28 and the basic instructions given in the columns specifying the

4 conditions for use in tables 6.1-6.5 of Annex IV to CLP).

5 On the other hand, the number of precautionary statements under CLP/GHS has more than doubled when compared to the number of S-phrases under DSD. In a 6 7 situation where selection rules are missing, an average hazardous substance 8 listed in Annex VI to CLP could easily be assigned more than 20 precautionary 9 statements on the label, based on the hazards of the substance (sub-section 3.4 of this guidance). CLP requires that normally<sup>39</sup> not more than six precautionary 10 statements must appear on the label. Therefore, a substantial reduction of the 11 12 number of precautionary statements must be performed, based on effective 13 selection rules. 14

## 15 7.2 Methodology

16	The selection of precautionary statements under CLP is based on:
17	<ul> <li>the provisions set out in CLP Articles 22 and 28 and</li> </ul>
18	<ul> <li>the basic instructions provided in the columns containing the conditions for</li></ul>
19	use in tables 6.1-6.5 of Annex IV to CLP and
20	<ul> <li>the instructions mentioned directly under the precautionary statements in</li></ul>
21	the selection tables ( <u>sub-section 7.3</u> of this guidance).
22	
23 24	The following approach was chosen for the selection of the precautionary statements under CLP:
25	<ul> <li>The P-statements<sup>40</sup> should be selected in accordance with the rules</li></ul>
26	outlined in Article 28 and Part 1 of Annex IV;
27	<ul> <li>The selection of P-statements should take into account the underlying</li></ul>
28	hazards and identified or foreseen conditions for use of a substance or
29	mixture;
30	<ul> <li>If the content of two P-statements is an obvious duplication, only the most</li></ul>
31	relevant statement should be selected;
32	<ul> <li>The P-statements assignment follows a "traffic light" system. The</li></ul>
33	conditions for use described in this guidance document distinguish
34	between precautionary statements that are "highly recommended",
35	"recommended", "optional" and "not to be used" for the hazard label;
36	<ul> <li>A particular recommendation should be seen in the light of the original CLP</li></ul>
37	conditions for use specified under the relevant precautionary statement in
38	the selection tables;
39 40	• Two target groups: the general public and the industrial/professional users are specified under CLP. Where there is no explicit mention of the target

<sup>&</sup>lt;sup>39</sup> Unless necessary to reflect the nature and the severity of the hazards.

 $<sup>^{\</sup>rm 40}$  Corresponding but not always identical to the former safety phrases (S-phrases) under DSD.

1 2 3	group, the conditions for use apply to both the general public and industrial/professional users. Where the use of a particular precautionary statement is (highly)
4 5 6 7	recommended but some exemptions are indicated ("unless" condition), it should not be used where the conditions specified in the "unless" clause apply:
8 9 10 11 12	<b>For example:</b> P264 (Wash thoroughly after handling) for the hazard class: Skin corrosion 1 should not be used for industrial/professional users where P280 (Wear protective gloves/protective clothing/eye protection/face protection) has already been selected for the hazard label of the substance or mixture.
13 14 15 16	Vice versa, where a precautionary statement is only optional, it should be used where the conditions specified in the "unless" clause apply:
17 18 19 20	<b>For example:</b> P410 (Protect from sunlight) for the hazard class: Gases under pressure should be applied in case the described gases are subject to (slow) decomposition or polymerisation
21 22 23 24 25	Similarly to the previous bullet point: where the use of a particular precautionary statement is (highly) recommended under certain conditions only, it should not be used where these conditions do not apply:
26 27 28 29	For example: P260 (Do not breathe dust/fume/gas/mist/vapours/spray) would not be recommended for skin corrosive substances or mixtures where inhalation is unlikely to occur (e.g. substances/mixtures that are not volatile and where inhalable particles or mists do not occur during use).
30 31 32 33 34	For some hazards, the use of many specific precautionary statements will normally have to be recommended. As a consequence, the number of precautionary statements on the label will easily exceed the target number of six even for simple substances.
35 36 37 38 39 40 41 42 43 44	On the other hand, the label, as compared to the SDS, is not always the only and most appropriate means to convey a message to industrial/professional users, e.g. for P241 (Use explosion-proof electrical/ventilating/lighting//equipment.). In such cases, the guidance also refers to the SDS, typically by phrasing both a recommendation for the label and for the SDS. The recommendation for inclusion on the label is then "weaker" than for the SDS, see for example P241 for flammable liquids or P373 (DO NOT fight fire when fire reaches explosives) for explosive hazards. In some cases, it is even recommended to put the relevant precautionary statements in the relevant section of SDS <b>only</b> ;

1 2 3 4 5	<ul> <li>In relation to the physical hazards, it should always be determined whether substances or mixtures displaying these hazards are supplied to or handled by the general public. Where this is not the case, the use of further precautionary statements could be de-prioritised ("weaker" recommendation);</li> </ul>
6 7 8	<ul> <li>For certain hazard classes listed in Table 6.5 of Annex IV, CLP requires at least one precautionary statement relating to disposal for substances or mixtures supplied to the general public, as referred to under Article 28(2);</li> </ul>
9 10 11 12	<ul> <li>Where it is proposed to combine two or more precautionary statements that could also be used on their own, the conditions of use specify "(highly) recommended, in combination with Pxxx":</li> </ul>
13	For example:
14	"Highly recommended, in combination with P302 + P352 (IF ON SKIN: Wash with plenty of water/) for P310 (Immediately call a POISON
15	CENTER/doctor/) for the hazard class: Acute Tox. 1 and 2 (dermal).;
16 17	Such combined statements should be counted as one P-statement.
17	<ul> <li>Additional guidance is provided for the application of the precautionary</li> </ul>
19 20 21 22	<ul> <li>Additional guidance is provided for the application of the precaditionary statements P101 (If medical advice is needed, have product container or label at hand), P102 (Keep out of reach of children) and P103 (Read label before use) for hazardous substances and mixtures supplied to the general public (see table in <u>sub-section 7.3.1</u> of this guidance).</li> </ul>
23 24 25 26 27 28 29 30 31	It should be noted that for substances and mixtures which are at the same time classified for physical, health and environmental hazards, a selection based on the rules outlined in this CLP guidance may still lead to a final set that significantly exceeds the target number of six statements for the label (see <b>Example C</b> . Substance Z assigned physical, health and environmental classifications) Even if this can in principle be justified by CLP Article 28(3), the question remains whether the extent of the labelling information is still digestible, in particular where long combination statements appear.
32 33	Therefore, when verifying the set of P-statements selected on the basis of this guidance, it is proposed to take into account the following principles:
34 35 36 37 38	<ul> <li>certain prevention and response statements provide more urgent advice than other statements, as rapid action may be crucial. Therefore, where similar P-statements having different priorities are assigned because of different hazards, the most stringent P-statement should be selected. This judgement can only be done on a case-by-case basis and will strongly</li> </ul>

- judgement can only be done on adepend on the hazards involved:
- 40

#### For example:

For substance classified as acutely toxic and carcinogenic, the first aid measures for acute toxicity will take precedence over the longer term effects, i.e. P310 (Immediately call a POISON CENTER/doctor/...) will take precedence over P311 (Call a POISON CENTER/doctor/...), P312 (Call a POISON CENTRE/doctor/.../if you feel unwell) and P313 (Get medical advice/attention).

# de-selecting statements which appear less urgent from the label and putting them in the SDS would be a better option; to reduce the number of P-statements, the content of the hazard statement can also be taken into account;

U U	
6	For example:
7	Omission of P222 (Do not allow contact with air) for hazard classes:
8	Pyrophoric liquids and Pyrophoric solids, the hazard statement being:
9	H250 (Catches fire spontaneously if exposed to air).

10

1

11 Where an SDS must be compiled, the precautionary statements selected for the 12 CLP hazard label have to be included in the SDS, under heading 2.2 ("Label 13 elements"), see the *Guidance on the compilation of safety data sheets*. The de-14 selected statements can be introduced under the relevant headings of the SDS 15 instead, to provide the industrial or professional user with sufficient information 16 for handling the substance or mixture safely.

17

### 18 **7.3 Selection tables**

19 The below selection tables (sub-sections 7.3.1 to 7.3.5 of this guidance) follow 20 the format as provided in Section 3 of Annex 3 to the UN GHS. The tables are

arranged according to hazard class and category as appropriate.

The guidance builds upon the generic provisions set out in CLP Article 22 and 28, as well as the basic instructions provided in the columns containing the conditions for use in tables 6.1-6.5 of Annex IV to CLP. It takes into account *i.a.* the intended uses and the physical properties of the substance or mixture.

The original CLP conditions for use are displayed in black colour under the relevant precautionary statements in the selection tables below. In contrast, the conditions which constitute EU guidance are marked with an **asterisk bullet**  $\star$ **and in blue colour**, in order to distinguish them from the original CLP conditions for use (see also the columns containing the conditions for use in tables 6.1 – 6.5 of Annex IV to the CLP Regulation).

- 32 When a **forward slash or diagonal mark** "/" appears in a precautionary
- 33 statement text, it indicates that a choice has to be made between phrases it 34 separates:
- 35

### For example:

P280 (Wear protective gloves/protective clothing/eye protection/face protection) could read: "Wear eye protection" or "Wear eye and face protection".

- 37
- 38
- 39

- 80
- 1 When **three full stops "..."** appear in precautionary statement text, they
- 2 indicate that not all applicable conditions are listed. Therefore, the manufacturer
- 3 or supplier needs to add the required information as appropriate.
- 4

#### For example:

In P312 (Call a POISON CENTRE/doctor/.../if you feel unwell), the use of "..." indicates that other choice needs to be specified by manufacturer or supplier.

5

6

- 7 Where **square brackets** [...] appear around some text in a precautionary
- 8 statement, this indicates that the text in square brackets is not appropriate in
- 9 every case and should be used only in certain circumstances. In these cases,
- 10 conditions for use are included explaining when the text should be used:

11

#### For example:

P284 states: "[In case of inadequate ventilation] wear respiratory protection." This P-statement is given with the following condition for use: "- *text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.*" The application of this condition should be interpreted as follows: if additional information is provided with the chemical explaining what type of ventilation would be adequate for safe use, the text in square brackets **may** be used. In this case, P284 would read: "In case of inadequate ventilation wear respiratory protection." However, if the chemical is supplied without such information, the text in square brackets should **not** be used, and P284 should read: "wear respiratory protection".

12

13

14 In selecting the precautionary statements in accordance with the conditions for 15 use set out in the tables, suppliers may combine these statements, having regard 16 to clarity and comprehensibility of the precautionary advice. In this case the 17 specific wording of the component phrases must be retained in the combined 18 phrases. The selection tables are followed by four examples (A, B, C and D) of 19 substances where the selection of precautionary statements for the label is 20 illustrated. 21 22

- 22 23
- 24
- 25
- -0
- 26
- 27
- 28

#### 1 7.3.1 General precautionary statements

2

#### **Precautionary Statement**

#### P101

#### If medical advice is needed, have product container or label at hand.

- Consumer products

★ Highly recommended for all substances and mixtures classified for health hazards and that are sold to the general public

#### P102

#### Keep out of reach of children.

- Consumer products

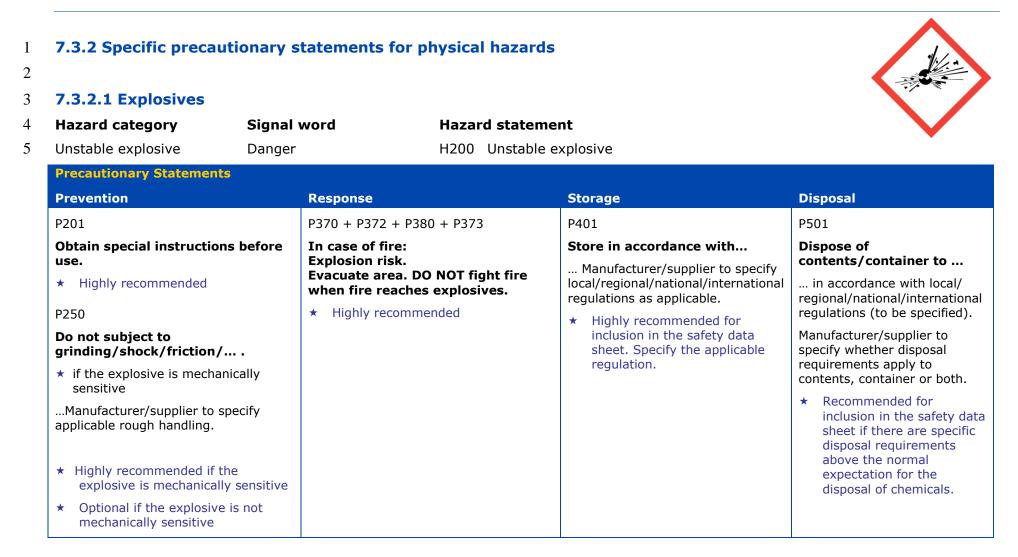
- ★ Highly recommended for substances and mixtures sold to the general public, except for those only classified as hazardous to the environment
- ★ Applies also to packagings that are to be fitted with child resistant fastening (Annex II, section 3.1.1.1)

#### P103

#### Read label before use.

- Consumer products

★ Optional, but may be required by other EU legislation



P28	280
clo	ear protective gloves/protective othing/eye protection/face rotection.
	anufacturer/supplier to specify the propriate type of equipment.
	Highly recommended to apply the full wording of P280

#### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

#### \_\_\_\_\_

#### 1 7.3.2.1 Explosives

2	Hazard category	Signal word	Hazard statement	life -
3	Division 1.1	Danger	H201 Explosive; mass explosion hazard	
4	Division 1.2	Danger	H202 Explosive; severe projection hazard	
5	Division 1.3	Danger	H203 Explosive; fire, blast or projection hazar	d 🗸
	Precautionary Statemen	nts		

#### Prevention Response Storage Disposal P210 P401 P501 P370 + P372 + P380 + P373 Keep away from heat, hot surfaces, In case of fire: Store in accordance with... **Dispose of** sparks, open flames and other Explosion risk. contents/container to ... ... Manufacturer/supplier to specify ignition sources. No smoking. Evacuate area. DO NOT fight fire local/regional/national/international ... in accordance with local/ when fire reaches explosives. regulations as applicable. ★ Highly recommended regional/national/international ★ Highly recommended regulations (to be specified). ★ Highly recommended for P230 inclusion in the safety data Manufacturer/supplier to sheet. Specify the applicable specify whether disposal Keep wetted with ... regulation. requirements apply to - for substances and mixtures which contents, container or both. are wetted, diluted, dissolved or ★ Recommended for inclusion suspended with a phleqmatiser in order in the safety data sheet if to reduce or suppress their explosive properties (desensitized explosives) there are specific disposal requirements above the ... Manufacturer/supplier to specify normal expectation for the appropriate material. disposal of chemicals. Specify the applicable ★ Highly recommended regulation. ★ Mandatory when supplied to the general public (where the Member State

P234
Keep only in original packaging
★ Highly recommended
P240
Ground and bond container and receiving equipment.
<ul> <li>if the explosive is electrostatically sensitive.</li> </ul>
★ Optional unless other conditions deem it necessary
★ Recommended for inclusion in the safety data sheet
P250
Do not subject to grinding/shock/friction/
★ if the explosive is mechanically sensitive
Manufacturer/supplier to specify applicable rough handling.
<ul> <li>Highly recommended if the explosive is mechanically sensitive</li> </ul>
★ Optional if the explosive is not mechanically sensitive

P280
Wear protective gloves/protective clothing/eye protection/face protection.
Manufacturer/supplier to specify the appropriate type of equipment.
<ul> <li>Protective gloves/protective clothing/eye protection highly recommended for industrial/professional users</li> </ul>
★ Face protection highly recommended for industrial/professional users where articles are able to form hazardous fragments
<ul> <li>Recommended for explosives supplied to the general public (where Member States allows such supply).</li> </ul>

#### 1 **7.3.2.1 Explosives**

- 2 Hazard category
  - Division 1.4

Signal word Warning

# Hazard statement

H204 Fire or projection hazard



4 5

3

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P370 + P372 + P380 + P373	P401	P501
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.	Store in accordance with Manufacturer/supplier to specify	Dispose of contents/container to in accordance with local/
<ul> <li>* Highly recommended</li> <li>P234</li> </ul>	- except for explosives of division 1.4 (compatibility group S) in transport	local/regional/national/internation al regulations as applicable.	regional/national/internationa l regulations (to be specified).
Keep only in original packaging ★ Highly recommended	<ul><li>packaging.</li><li>★ Highly recommended</li></ul>	<ul> <li>Highly recommended for inclusion in the safety data sheet. Specify the applicable regulation.</li> </ul>	Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
P240 Ground and bond container and receiving equipment.	P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk		★ Recommended for inclusion in the safety data sheet if there are specific dispesal
<ul> <li>- if the explosive is electrostatically sensitive.</li> <li>* Optional unless other conditions deem it necessary</li> </ul>	of explosion. - for explosives of division 1.4 (compatibility group S) in transport packaging.		specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>	★ Highly recommended		<ul><li>regulation.</li><li>Mandatory when supplied</li></ul>

P250	to the general public (where the Member S
Do not subject to grinding/shock/friction/	allows such supply).
★ if the explosive is mechanically sensitive	
Manufacturer/supplier to specify applicable rough handling.	
★ Highly recommended if the explosive is mechanically sensitive	
<ul> <li>Optional if the explosive is not mechanically sensitive</li> </ul>	
P280	
Wear protective gloves/protective clothing/ eye protection/ face protection.	
Manufacturer/supplier to specify the appropriate type of equipment.	
<ul> <li>Protective gloves/protective clothing/eye protection highly recommended for industrial / professional users</li> </ul>	
★ Face protection highly recommended for industrial / professional users where articles are able to form hazardous fragments	
★ Recommended for explosives supplied to the general public (where Member States allows such supply).	

1 2	7.3.2.1 Explosives Hazard category	Signal wo		Hazard statemer			No additional hazard pictogram
3	Division 1.5	Danger		H205 May mass e	explode in fire		,
	Precautionary Statemen	its					
	Prevention		Response		Storage	Di	isposal
	P210		P370 + P372 + P380	) + P373	P401	P5	501
	Keep away from heat, he sparks, open flames and ignition sources. No smo * Highly recommended P230 Keep wetted with	l other oking.	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.		<ul> <li>Store in accordance with</li> <li> Manufacturer/supplier to specify local/regional/national/international regulations as applicable.</li> <li>* Highly recommended for inclusion in the safety data sheet. Specify the applicable regulation.</li> </ul>	 re al sp Ma	ispose of ontents/container to in accordance with local/ egional/national/internation regulations (to be becified). anufacturer/supplier to becify whether disposal
	<ul> <li>for substances and mixture wetted, diluted, dissolved of with a phlegmatiser in order or suppress their explosives (desensitized explosives)</li> <li> Manufacturer/supplier to appropriate material.</li> <li>* Highly recommended</li> <li>P234</li> <li>Keep only in original pace</li> <li>* Highly recommended</li> </ul>	or suspended er to reduce properties				re cc	equirements apply to ontents, container or both. Recommended for inclusion in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.

P240
Ground and bond container and receiving equipment.
<ul> <li>if the explosive is electrostatically sensitive.</li> </ul>
★ Optional unless other conditions deem it necessary
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>
P250
Do not subject to grinding/shock/friction/
- if the explosive is mechanically sensitive
Manufacturer/supplier to specify applicable rough handling.
<ul> <li>Highly recommended if the explosive is mechanically sensitive</li> </ul>
★ Optional if the explosive is not mechanically sensitive
P280
Wear protective gloves/protective clothing/eye protection/ face protection.
Manufacturer/supplier to specify the appropriate type of equipment.

<ul> <li>Protective gloves/protective clothing/eye protection highly recommended for industrial / professional users</li> </ul>		
★ Face protection highly recommended for industrial / professional users where articles are able to form hazardous fragments		
<ul> <li>Recommended for explosives supplied to the general public (where Member States allows such supply)</li> </ul>		

#### Notes on the labelling of Explosives

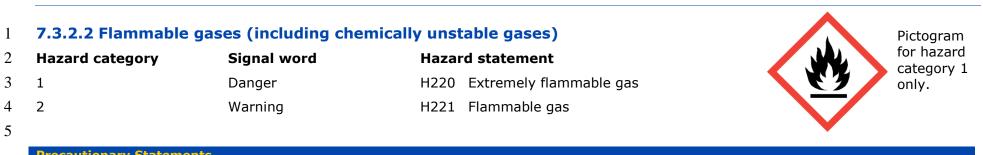
- 1) Unpackaged explosives or explosives repackaged in packaging other than the original or similar packaging must include all of the following label elements:
  - a) the pictogram: exploding bomb;
  - b) the signal word "Danger"; and
  - c) the hazard statement: 'Explosive; mass explosion hazard'

unless the hazard is shown to correspond to one of the hazard categories listed in Table 2.1.2 of Annex I to CLP, in which case the corresponding symbol, the signal word and/or the hazard statement must be assigned.

2) Substances and mixtures, as supplied, with a positive result in Test Series 2 in Part I, Section 12, of the UN RTDG, Manual of Tests and Criteria, which are exempted from classification as explosives (based on a negative result in Test Series 6 in Part I, Section 16 of the UN RTDG, Manual of Test and Criteria) still have explosive properties. The user must be informed of these intrinsic explosive properties because they have to be considered for handling – especially if the substance or mixture is removed from its packaging or is repackaged – and for storage. For this reason, the explosive properties of the substance or mixture must be communicated in Section 2 and Section 9 of the safety data sheet and other sections of the safety data sheet, as appropriate.

#### 91

#### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017



Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P377	P403	
Keep away from heat, hot surfaces, sparks, open flames and other	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.	Store in a well-ventilated place.	
<ul><li>ignition sources. No smoking.</li><li>* Highly recommended</li></ul>	★ Highly recommended	★ Highly recommended	
	P381		
	In case of leakage, eliminate all ignition sources.		
	* Recommended		

#### 7.3.2.2 Flammable gases (including chemically unstable gases)

3	Hazard category	Signal word	Hazard statement	No additional
4	A	No additional signal word	H230 May react explosively even in the absence of air	hazard
5 6	В	No additional signal word	H231 May react explosively even in the absence of air at elevated pressure and/or temperature	pictogram

Precautionary Statements			
Prevention	Response	Storage	Disposal
P202			
Do not handle until all safety precautions have been read and understood.			
★ Highly recommended			

- Note: This table lists only the precautionary statement that is assigned due to the chemical instability of the gas. For other precautionary statements that are assigned based on the flammability see the respective table for flammable gases (of cat. 1 and 2) on the previous page.

#### **Guidance on Labelling and Packaging** Draft PUBLIC version 3.0 January 2017

#### 94

#### 7.3.2.3 Aerosols

Hazard category	Signal word	Hazard statement
1	Danger	H222 Extremely flammable aerosol H229 Pressurised container: May burst if heated
2	Warning	H223 Flammable aerosol H229 Pressurised container: May burst if heated



#### **Precautionary Statements**

Prevention	Response	Storage	Disposal
P210		P410 + P412	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		Protect from sunlight. Do not expose to temperatures exceeding	
★ Highly recommended, unless already assigned in		50 °C/122 °F.	
accordance with Directive 75/324/EEC		Manufacturer/supplier to use applicable temperature scale	
P211		★ Highly recommended, unless	
Do not spray on an open flame or other ignition source.		already assigned in accordance with Directive 75/324/EEC	
<ul> <li>Highly recommended, unless a similar statement is assigned in accordance with Directive 75/324/EEC</li> </ul>			
P251			
Do not pierce or burn, even after use.			
<ul> <li>Highly recommended, unless already assigned in accordance with Directive 75/324/EEC</li> </ul>			

7.3.2.3 Aerosols				No additional
Hazard category	Signal word	Hazard state	ement	hazard
3	Warning	H229 Pressur	ised container: May burst if heated	pictogram
Precautionary Statemer	nts			
Prevention		Response	Storage	Disposal
P210			P410 + P412	
	hot surfaces, sparks, open on sources. No smoking.		Protect from sunlight. Do not expose to temperatures exceeding	
<ul> <li>Highly recommended, accordance with Direct</li> </ul>	unless already assigned in tive 75/324/EEC		<b>50 °C/ 122°F.</b> Manufacturer/supplier to use applicable temperature scale	
P251			$\star$ Highly recommended, unless	
Do not pierce or burn, e	even after use.		already assigned in accordance	
★ Highly recommended, accordance with Direct	unless already assigned in tive 75/324/EEC		with Directive 75/324/EEC	

## 7.3.2.4 Oxidising gases

Hazard category Signal v	vord Hazard statement		
1 Danger	H270 May cause or in	tensify fire; oxidiser	$\langle 0 \rangle$
Precautionary Statements			
Prevention	Response	Storage	Disposal
P220	P370 + P376	P403	
Keep away from clothing and other combustible materials.	In case of fire: Stop leak if safe to do so.	Store in a well-ventilated place.	
★ Highly recommended	★ Optional	★ Highly recommended	
P244	<ul> <li>Recommended for inclusion in the safety data sheet.</li> </ul>		
Keep valves and fittings free from oil grease.	and		
★ Highly recommended			

#### 96

#### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

#### 1 **7.3.2.5 Gases under pressure**

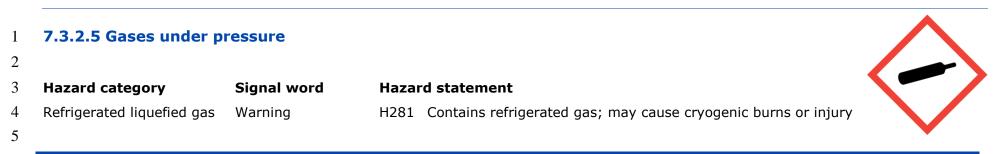
Hazard category
 Signal word
 Compressed gas
 Liquefied gas
 Warning
 Dissolved gas
 Warning

#### Hazard statement

H280 Contains gas under pressure; may explode if heatedH280 Contains gas under pressure; may explode if heatedH280 Contains gas under pressure; may explode if heated



<b>Precautionary Statement</b>	ts		
Prevention	Response	Storage	Disposal
		P410 + P403	
		Protect from sunlight. Store in a we ventilated place.	ell-
		<ul> <li>P410 may be omitted for gases filled transportable gas cylinders in accordance with packing instruction P200 of the UN RTDG, unless those gases are subject to (slow) decomposition or polymerisation</li> <li>* Optional</li> </ul>	in



Precautionary Statements			
Prevention	Response	Storage	Disposal
P282	P336 + P315	P403	
Wear cold insulating gloves and either face shield or eye protection.	Thaw frosted parts with lukewarm water. Do not rub affected area. Get	Store in a well- ventilated place.	
<ul> <li>Highly recommended where liquid splashes may occur, e.g. during transfer of cryogenic liquids. In this case the use of safety glasses with side shields or a face shield should be indicated in the safety data sheet.</li> </ul>	immediate medical advice/attention. ★ Recommended	★ Optional	

#### **Guidance on Labelling and Packaging** Draft PUBLIC version 3.0 January 2017

#### 7.3.2.6 Flammable liquids 1

2 Hazard category Signal word 3 1 4 2 5 3 Warning

# Danger Danger

#### Hazard statement

- H224 Extremely flammable liquid and vapour
- H225 Highly flammable liquid and vapour
- H226 Flammable liquid and vapour



#### **Precautionary Statements** Prevention Response Storage Disposal P501 P210 P303 + P361 + P353 P403 + P235Keep away from heat, hot surfaces, IF ON SKIN (or hair): Take off Store in a well-Dispose of sparks, open flames and other ignition immediately all contaminated ventilated place. contents/container to ... sources. No smoking. clothing. Rinse skin with water [or Keep cool. ... in accordance with shower]. ★ Highly recommended - for flammable liquids local/regional/ Category 1 and other national/international regulations - text in square brackets to be included where the manufacturer/supplier flammable liquids that P233 (to be specified). considers it appropriate for the specific are volatile and mav Manufacturer/supplier to specify Keep container tightly closed. generate an explosive chemical whether disposal requirements atmosphere. - if the liquid is volatile and may generate an ★ Optional unless deemed necessary, apply to contents, container or explosive atmosphere e.g. due to the risk of generating a ★ Hiahly both. potentially explosive atmosphere recommended $\star$ Highly recommended for category 1, ★ Mandatory for the general unless P404 has already been assigned public if the substance / P370 + P378 mixture is subject to ★ Recommended for category 2, unless legislation on hazardous In case of fire: Use ... to extinguish. P404 has already been assigned waste. It is recommended to - if water increases risk. ★ Optional for category 3 specify the site of disposal while a reference to the ...Manufacturer/supplier to specify applicable legislation is not P235 appropriate media. necessary. ★ Highly recommended if specific Keep cool. ★ Recommended for industrial / extinguishing media are required or

- for flammable liquids category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere	appropriate	professional users if there are specific disposal requirements above the
<ul> <li>Highly recommended, unless P403 + P235 is assigned.</li> </ul>		normal expectation for the disposal of chemicals. It is recommended to specify
P240		the site of disposal while a reference to the applicable
Ground and bond container and receiving equipment.		legislation is not necessary.
<ul> <li>if the liquid is volatile and may generate an explosive atmosphere</li> </ul>		
<ul> <li>Optional unless other conditions deem it necessary</li> </ul>		
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>		
P241		
Use explosion-proof [electrical/ventilating/ lighting/] equipment.		
<ul> <li>if the liquid is volatile and may generate an explosive atmosphere</li> </ul>		
<ul> <li>text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</li> </ul>		
<ul> <li>Optional unless other conditions deem it necessary</li> </ul>		
★ Recommended for inclusion in the safety		

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. <b>Т</b>	U	ь	

data sheet
P242
Use non-sparking tools.
- if the liquid is volatile and may generate an explosive atmosphere and if the minimum ignition energy is very low. (This applies to substances and mixtures where the ignition energy is <0.1 mJ, e.g. carbon disulphide).
★ Optional unless other conditions deem it necessary
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>
P243
Take action to prevent static discharges.
<ul> <li>if the liquid is volatile and may generate an explosive atmosphere</li> </ul>
★ Optional unless other conditions deem it necessary
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>
P280
Wear protective gloves/protective clothing/eye protection/face protection.
Manufacturer/supplier to specify the appropriate type of equipment.
★ Optional

1 7.3.2.7 Flammable solids
----------------------------

2	Hazard category	Signal word
3	1	Danger
4	2	Warning

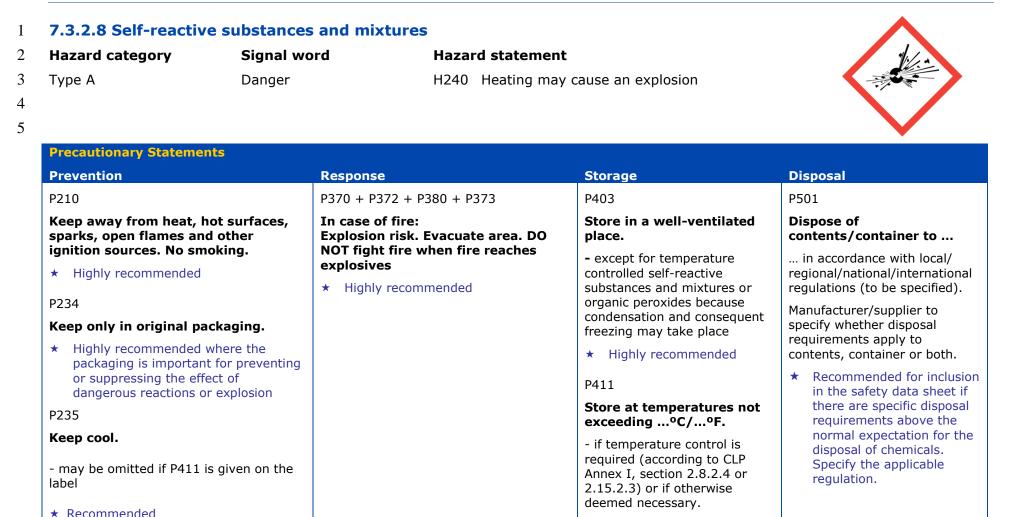


Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P370 + P378		
Keep away from heat, hot surfaces, sparks,	In case of fire: Use to extinguish.		
open flames and other ignition sources. No smoking.	- if water increases risk.		
★ Highly recommended	Manufacturer/supplier to specify appropriate media.		
P240	<ul> <li>Highly recommended if specific extinguishing media are required or appropriate</li> </ul>		
Ground and bond container and receiving equipment.			
- if the solid is electrostatically sensitive			
★ Optional unless other conditions deem it necessary			
★ Recommended for inclusion in the safety data sheet			
P241			
Use explosion-proof [electrical/ventilating/ lighting/] equipment.			

Hazard statement

H228 Flammable solid H228 Flammable solid

- if dust clouds can occur.	
<ul> <li>text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</li> </ul>	
★ Optional unless other conditions deem it necessary	
★ Recommended for inclusion in the safety data sheet	
P280	
Wear protective gloves/protective clothing/eye protection/ face protection.	
Manufacturer/supplier to specify the appropriate type of equipment.	
★ Optional	



... Manufacturer/supplier to specify temperature using the

P240 Ground and bond container and receiving equipment.	<ul> <li>applicable temperature scale.</li> <li>★ Highly recommended</li> <li>P420</li> </ul>
- if electrostatically sensitive and able to generate an explosive atmosphere	Store separately.
★ Optional unless other conditions deem it necessary	<ul> <li>Recommended where incompatible materials are likely to produce a</li> </ul>
<ul> <li>Recommended for inclusion in the safety data sheet</li> <li>P280</li> </ul>	particular risk. If this statement is used, text clarifying the incompatible materials should be added
Wear protective gloves/protective clothing/eye protection/face protection.	as supplemental information.
Manufacturer/supplier to specify the appropriate type of equipment.	
★ Highly recommended	

#### 1 7.3.2.8 Self-reactive substances and mixtures

2	Hazard category
3	Type B

**Signal word** Danger

# Hazard statement

H241 Heating may cause a fire or explosion



4

**Precautionary Statements** Prevention Response Storage Disposal P403 P501 P210 P370 + P380 + P375 [+ P378]<sup>41</sup> Keep away from heat, hot surfaces, In case of fire: Evacuate area. Store in a well-ventilated **Dispose of** sparks, open flames and other ignition Fight fire remotely due to the risk place. contents/container to ... sources. No smoking. of explosion. [Use ... to - except for temperature ... in accordance with extinguish]. ★ Highly recommended controlled self-reactive local/regional/ - text in square brackets to be used if substances and mixtures or national/international water increases risk. regulations (to be P234 organic peroxides because condensation and consequent specified). ...Manufacturer/supplier to specify Keep only in original packaging. freezing may take place Manufacturer/supplier to appropriate media. ★ Highly recommended ★ Highly recommended specify whether disposal ★ Highly recommended requirements apply to P235 contents, container or \* Text in square brackets is highly P411 Keep cool. recommended if specific both. Store at temperatures not extinguishing media are required ★ Mandatory for the exceeding ...ºC/...ºF. - may be omitted if P411 is given on the label or appropriate general public if the - if temperature control is substance / mixture is ★ Recommended required (according to CLP subject to legislation Annex I, section 2.8.2.4 or on hazardous waste. It

<sup>&</sup>lt;sup>41</sup> The use of square brackets is explained in section 7.3 of this guidance document.

<ul> <li>P240</li> <li>Ground and bond container and receiving equipment.</li> <li>- if electrostatically sensitive and able to generate an explosive atmosphere</li> <li>* Optional unless other conditions deem it necessary</li> <li>* Recommended for inclusion in the safety data sheet</li> <li>P280</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>Manufacturer/supplier to specify the appropriate type of equipment.</li> <li>* Highly recommended</li> </ul>	<ul> <li>2.15.2.3) or if otherwise deemed necessary.</li> <li> Manufacturer/supplier to specify temperature.</li> <li>★ Highly recommended</li> <li>P420</li> <li>Store separately.</li> <li>★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information</li> </ul>	<ul> <li>is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> <li>Recommended for inclusion in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</li> </ul>
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#### 1 7.3.2.8 Self-reactive substances and mixtures

2	Hazard category	Signal word	Hazard statement	
3	Туре С	Danger	H242 Heating may cause a fire	
4	Type D	Danger	H242 Heating may cause a fire	
5	Type E	Warning	H242 Heating may cause a fire	<u>C 7</u>
6	Type F	Warning	H242 Heating may cause a fire	
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7

Precautionary Statements				
Prevention	Response	Storage	Disposal	
P210	P370 + P378	P403	P501	
Keep away from heat, hot surfaces, sparks, open flames and other	In case of fire: Use to extinguish.	Store in a well-ventilated place.	Dispose of contents/container to	
ignition sources. No smoking.	- if water increases risk.	<ul> <li>except for temperature</li> </ul>	in accordance with	
★ Highly recommended	Manufacturer/supplier to specify	controlled self-reactive substances and mixtures or	local/regional/ national/international regulations	
P234	appropriate media.	organic peroxides because	(to be specified).	
Keep only in original packaging.	<ul> <li>Highly recommended if specific extinguishing media are required</li> </ul>	condensation and consequent freezing may	Manufacturer/supplier to specify whether disposal requirements apply to contents, container or	
★ Highly recommended	or appropriate	take place		
P235		★ Highly recommended	both.	
Keep cool.		P411	<ul> <li>Mandatory for the general public if the substance/mixture</li> </ul>	
- may be omitted if P411 is given on the label		Store at temperatures not exceedingºC/ºF.	is subject to legislation on hazardous waste. It is	
* Recommended		<ul> <li>if temperature control is required (according to CLP Annex I, section 2.8.2.4 or</li> </ul>	recommended to specify the site of disposal while a reference to the applicable	

P240 Ground and bond container and receiving equipment.	2.15.2.3) or if otherwise deemed necessary. Manufacturer/supplier to specify temperature.	<ul> <li>legislation is not necessary.</li> <li>Recommended for inclusion in the safety data sheet if there are specific disposal</li> </ul>
<ul> <li>if electrostatically sensitive and able to generate an explosive atmosphere</li> </ul>	★ Highly recommended	requirements above the normal expectation for the
★ Optional unless other conditions deem it necessary	P420	disposal of chemicals. Specify the applicable regulation.
★ Recommended for inclusion in the safety data sheet	<ul> <li>Store separately.</li> <li>* Recommended where incompatible materials</li> </ul>	
P280	are likely to produce a particular risk. If this	
Wear protective gloves/protective clothing/eye protection/face protection.	statement is used, text clarifying the incompatible materials	
Manufacturer/supplier to specify the appropriate type of equipment.	should be added as supplemental information	
★ Highly recommended		

# Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

# 7.3.2.9 Pyrophoric liquids

2Hazard categorySignal word31Danger

# 4

1

### 5

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P302 + P334		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	IF ON SKIN: Immerse in cool water or wrap in wet bandages.		
smoking.	★ Highly recommended		
★ Highly recommended			
P222	P370 + P378		
	In case of fire: Use to extinguish.		
Do not allow contact with air.	- if water increases risk.		
- if emphasis of the hazard statement is deemed necessary	Manufacturer/supplier to specify appropriate media.		
★ Optional	★ Highly recommended if specific extinguishing		
P231 + P232	media are required or appropriate		
Handle and store contents under inert gas/ Protect from moisture			
Manufacturer/supplier to specify appropriate liquid or gas if "inert gas" is not appropriate.			

Hazard statement

H250 Catches fire spontaneously if exposed to air

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★ Recommended		
<ul> <li>Highly recommended for inclusion in the safety data sheet</li> </ul>		
P233		
Keep container tightly closed		
★ Highly recommended		
P280		
Wear protective gloves/protective clothing/eye protection/face protection.		
Manufacturer/supplier to specify the appropriate type of equipment.		
★ Highly recommended		

# 1 7.3.2.10 Pyrophoric solids

Precautionary Statements

2	Hazard category	Signal word	Hazard statement
3	1	Danger	H250 Catches fire spontaneously if exposed to air
4			



Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P302 + P335 + P334		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.		
★ Highly recommended			
P222	★ Highly recommended		
Do not allow contact with air.	P370 + P378		
<ul> <li>-if emphasis of the hazard statement is deemed necessary</li> <li>* Optional</li> </ul>	In case of fire: Use to extinguish. - if water increases risk. Manufacturer/supplier to specify appropriate		
P231 + P232	media.		
Handle and store contents under inert gas/ Protect from moisture	<ul> <li>Highly recommended if specific extinguishing media are required or appropriate</li> </ul>		
Manufacturer/supplier to specify appropriate liquid or gas if "inert gas" is not appropriate.			

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* Recommended		
<ul> <li>Highly recommended for inclusion in the safety data sheet</li> </ul>		
P233		
Keep container tightly closed		
★ Highly recommended		
P280		
Wear protective gloves/protective clothing/eye protection/face protection.		
Manufacturer/supplier to specify the appropriate type of equipment.		
★ Highly recommended		

zard category	Signal word	Hazard statement	A 1     A
	Danger	H251 Self-heating; may catch fire	
2 Warning	Warning	H252 Self-heating in large quantities; may catch fi	ire
recautionary Stateme	nts		
revention	Response	Storage	Disposal
235		P407	
eep cool.		Maintain air gap between stacks or pallets.	
may be omitted if P413 bel	is given on the	★ Highly recommended	
Highly recommended	for the general	P413	
public		Store bulk masses greater than kg/lbs at ter not exceeding°C/°F.	mperatures
280		Manufacturer/supplier to specify mass and tempera	ture using
Vear protective gloves lothing/eye protectio		applicable scale.	
rotection.		<ul> <li>Highly recommended if the manufacturer has specific information</li> </ul>	cific
lanufacturer/supplier to			
ppropriate type of equip Optional		P420	
Optional		Store separately.	
		<ul> <li>Recommended where incompatible materials are I produce a particular risk. If this statement is used clarifying the incompatible materials should be add supplemental information</li> </ul>	, text

# Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

# 7.3.2.12 Substances and mixtures which, in contact with water, emit flammable gases

2			
3	Hazard category	Signal word	Hazard statement
4 5	1	Danger	H260 In contact with water releases flammable gases which may ignite spontaneously
6	2	Danger	H261 In contact with water releases flammable gases
7			

7

Precautionary Statements			
Prevention	Response	Storage	Disposal
P223	P302 + P335 + P334	P402 + P404	P501
Do not allow contact with water.	IF ON SKIN: Brush off	Store in a dry place. Store	Dispose of
<ul> <li>if emphasis of the hazard statement is deemed necessary</li> </ul>	loose particles from skin. Immerse in cool water.	<ul> <li>in a closed container.</li> <li>* Recommended, unless</li> </ul>	contents/container to in accordance with
★ Optional	★ Highly recommended	P231 has already been assigned	local/regional/ national/international
P231 + P232	P370 + P378	★ Highly recommended for	regulations (to be specified).
Handle and store contents under inert gas/ Protect from moisture.	In case of fire: Use to extinguish.	inclusion in the safety data sheet	Manufacturer/supplier to specify whether disposal requirements apply to
- if the substance or mixture reacts readily with	- if water increases risk.		contents, container or both.
moisture in air.	Manufacturer/supplier to		★ Mandatory for the general
Manufacturer/supplier to specify appropriate liquid or gas if "inert gas" is not appropriate	specify appropriate media.		public if the substance / mixture is subject to legislation on hazardous
<ul> <li>Highly recommended where special emphasis is required</li> </ul>	<ul> <li>Highly recommended if specific extinguishing media are required or</li> </ul>		waste. It is recommended to specify the site of disposal while a reference

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<ul> <li>P280</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>Manufacturer/supplier to specify the appropriate type of equipment.</li> <li>* Recommended</li> </ul>	appropriate	to the applicable legislation is not necessary. Recommended for inclusion in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable
		regulation.

### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

### 117

# **7.3.2.12 Substances and mixtures which, in contact with water, emit flammable gases**

Hazard category
 3

Signal word Warning Hazard statement H261 In contact with water releases flammable gases



Precautionary Statements			· · · · · · · · · · · · · · · · · · ·
Prevention	Response	Storage	Disposal
P231 + P232	P370 + P378	P402 + P404	P501
Handle and store contents under inert gas/	In case of fire: Use to extinguish.	Store in a dry place. Store in a closed container.	Dispose of contents/container to
Protect from moisture.	- if water increases risk.	★ Recommended, unless P231 has	in accordance with local/
<ul> <li>- if the substance or mixture reacts readily with moisture in air.</li> </ul>	Manufacturer/supplier to specify appropriate media.	already been assigned <ul> <li>Highly recommended for</li> </ul>	regional/national/international regulations (to be specified).
Manufacturer/supplier to specify appropriate liquid or gas if "inert gas" is not appropriate	<ul> <li>Highly recommended if specific extinguishing media are required or appropriate</li> </ul>	inclusion in the safety data sheet	Manufacturer/supplier to specify whether disposal requirements apply to contents, container or
★ Highly recommended where special emphasis is required			<ul> <li>both.</li> <li>Mandatory for the general public if the substance /</li> </ul>
P280			mixture is subject to
Wear protective gloves/protective clothing/eye protection/face protection.			legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the
Manufacturer/supplier to specify the appropriate type of equipment.			applicable legislation is not necessary.
★ Recommended			★ Recommended for inclusion in the safety data sheet if there are specific disposal

118		Draft PUBLIC version 3.0 January 20
		requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.

**Guidance on Labelling and Packaging** 

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# 2 **7.3.2.13 Oxidising liquids**

3	Hazard category	Signal word	Hazard statement
4	1	Danger	H271 May cause fire or explosion; strong oxidiser



Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P306 + P360	P420	P501
Keep away from heat, hot surfaces, sparks, open flames and other	IF ON CLOTHING: Rinse immediately contaminated clothing	Store separately.	Dispose of contents/container to
ignition sources. No smoking.	and skin with plenty of water before removing clothes.	<ul> <li>Recommended where incompatible materials are</li> </ul>	in accordance with
★ Highly recommended	* Recommended	likely to produce a	local/regional/ national/international regulation
P220	P371 + P380 + P375	particular risk. If this statement is used, text	(to be specified).
Keep away from clothing and other combustible materials.	In case of major fire and large	clarifying the incompatible materials should be added	Manufacturer/supplier to specif whether disposal requirements
★ Highly recommended	quantities: Evacuate area. Fight fire remotely due to the risk of	as supplemental information	apply to contents, container or both.
P280	explosion.	★ Optional where P220 has	★ Mandatory for the general
Wear protective gloves/protective	★ Highly recommended	already been assigned	public if the substance / mixture is subject to
clothing/eye protection/ face protection.	P370 + P378		legislation on hazardous waste. It is recommended t
Manufacturer/supplier to specify the appropriate type of equipment.	In case of fire: Use to extinguish.		specify the site of disposal while a reference to the
Recommended	- if water increases risk.		applicable legislation is not necessary.
	Manufacturer/supplier to specify		<ul> <li>Recommended for inclusion</li> </ul>

P283       appropriate media.         Wear fire resistant or flame retardant clothing.       * Highly recommended if specific extinguishing media are required or appropriate         * Recommended for inclusion in the safety data sheet       appropriate	in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals
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# 1 7.3.2.13 Oxidising liquids

2	Hazard category	Signal word	Hazard statement		
3	2	Danger	H272 May intensify fire; oxidiser		
4	3	Warning	H272 May intensify fire; oxidiser		



5

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P370 + P378		P501
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	In case of fire: Use to extinguish.		Dispose of contents/container to
smoking.	- if water increases risk.		in accordance with
★ Highly recommended	Manufacturer/supplier to specify		local/regional/ national/international regulations
P220	appropriate media.		(to be specified).
Keep away from clothing and other	★ Highly recommended if specific extinguishing media are		Manufacturer/supplier to specify
combustible materials.	required or appropriate		whether disposal requirements apply to contents, container or
★ Highly recommended			both.
P280			* Mandatory for the general
Wear protective gloves/protective			public if the substance / mixture is subject to
clothing/eye protection/ face protection.			legislation on hazardous
Manufacturer/supplier to specify the appropriate type of equipment.			waste. It is recommended to specify the site of disposal while a reference to the
★ Recommended			applicable legislation is not
			necessary.
			★ Recommended for inclusion

	in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.
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# 7.3.2.14 Oxidising solids

Brocoutionary Statem

Hazard category	Signal word	Hazard statement
1	Danger	H271 May cause fire or explosion; strong oxidizer



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1 2 3

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P306 + P360		P501
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with		Dispose of contents/container to
<ul> <li>smoking.</li> <li>Highly recommended</li> <li>P220</li> </ul>	<ul> <li>plenty of water before removing clothes.</li> <li>* Recommended</li> </ul>		in accordance with local/regional/ national/international regulations (to be specified).
Keep away from clothing and other combustible materials. * Highly recommended	P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of		Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
P280 Wear protective gloves/protective	<ul><li>explosion.</li><li>* Highly recommended</li></ul>		<ul> <li>Mandatory for the general public if the substance / mixture is subject to</li> </ul>
clothing/eye protection/face protection. Manufacturer/supplier to specify the appropriate	P370 + P378 In case of fire: Use to extinguish.		legislation on hazardous waste. It is recommended to
type of equipment. * Recommended	- if water increases risk.		specify the site of disposal while a reference to the applicable legislation is not
P283	Manufacturer/supplier to specify appropriate media.		necessary.      Recommended for inclusion

<ul> <li>Wear fire resistant or flame retardant clothing.</li> <li>* Recommended for inclusion in the safety data sheet</li> </ul>	<ul> <li>Highly recommended if specific extinguishing media are required or appropriate</li> </ul>	in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.
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# 1 **7.3.2.14 Oxidising solids**

Brocoutionary Staten

2	Hazard category	Signal word	Hazard statement
3	2	Danger	H272 May intensify fire; oxidiser
4	3	Warning	H272 May intensify fire; oxidiser



5

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P370 + P378		P501
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	In case of fire: Use to extinguish. - if water increases risk.		Dispose of contents/container to
★ Highly recommended	Manufacturer/supplier to specify appropriate media.		in accordance with local/regional/national/ international regulations (to be
P220	★ Highly recommended if specific		specified).
Keep away from clothing and other combustible materials.	extinguishing media are required or appropriate		Manufacturer/supplier to specify whether disposal requirements
★ Highly recommended			apply to contents, container or both.
P280			* Mandatory for the general
Wear protective gloves/protective clothing/eye protection/face protection.			public if the substance / mixture is subject to legislation on hazardous
Manufacturer/supplier to specify the appropriate type of equipment.			waste. It is recommended to specify the site of disposal
★ Recommended			while a reference to the applicable legislation is not necessary.
			★ Recommended for inclusion

	in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.
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# 1 7.3.2.15 Organic peroxides

2 Hazard category

Type A

127

**Signal word** Danger

#### Hazard statement

H240 Heating may cause an explosion



4 5

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210	P370 + P372 + P380 + P373	P403	P501
Keep away from heat, hot surfaces, sparks, open flames and other	In case of fire: Explosion risk.	Store in a well-ventilated place.	Dispose of contents/container to
<ul><li>ignition sources. No smoking.</li><li>Highly recommended</li></ul>	Evacuate area. DO NOT fight fire when fire reaches explosives	- except for temperature controlled self- reactive substances and mixtures or organic peroxides because condensation	in accordance with local/regional/ national/international
P234	★ Highly recommended	and consequent freezing may take place	regulations (to be specified).
Keep only in original packaging.		★ Highly recommended, in combination with P411 or P235	Manufacturer/supplier to specify whether disposal
<ul> <li>Highly recommended where the packaging is important for preventing or suppressing the effect of</li> </ul>		P410	requirements apply to contents, container or both.
dangerous reactions or explosion		Protect from sunlight.	★ Recommended for
P235		★ Optional if P411 or P235 has already been assigned	inclusion in the safety data sheet if there are
Keep cool		P411	specific disposal requirements above the
- may be omitted if P411 is given on the label		Store at temperatures not exceeding°C/°F.	normal expectation for the disposal of chemicals. Specify the
* Optional		<ul> <li>- if temperature control is required (according to CLP Annex I, section 2.15.2.3) or if otherwise deemed</li> </ul>	applicable regulation.

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P240	necessary.
Ground and bond container and receiving equipment	Manufacturer/supplier to specify temperature using the applicable
<ul> <li>if electrostatically sensitive and able to generate an explosive atmosphere</li> </ul>	<ul><li>temperature scale.</li><li>Highly recommended</li></ul>
★ Optional unless other conditions deem it necessary	P420
★ Recommended for inclusion in the safety data sheet	<ul> <li>Store separately.</li> <li>* Recommended where incompatible materials are likely to produce a</li> </ul>
P280	particular risk. If this statement is
Wear protective gloves/protective clothing/eye protection/face protection.	used, text clarifying the incompatible materials should be added as supplemental information
Manufacturer/supplier to specify the appropriate type of equipment.	
★ Highly recommended	

1	7.3.2.15 Organic pe	eroxides		
2	Hazard category	Signal word	Hazard statement	
3	Туре В	Danger	H241 Heating may cause a fire or explosion	 <b>( (7)</b>
4				
5				
	Precautionary Stateme	nts		

Prevention	Response	Storage	Disposal
P210	P370 + P380 + P375 [+ P378]	P403	P501
<ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>* Highly recommended</li> <li>P234</li> </ul>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use to extinguish]. Manufacturer/supplier to specify appropriate media.	<ul> <li>Store in a well-ventilated place.</li> <li>except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and</li> </ul>	Dispose of contents/container to in accordance with local/regional/ national/international regulations (to be specified).
<ul> <li>Keep only in original packaging.</li> <li>Highly recommended</li> <li>P235</li> </ul>	<ul> <li>text in square brackets to be used if water increases risk.</li> <li>Highly recommended</li> </ul>	<ul> <li>consequent freezing may take place</li> <li>Highly recommended, in combination with P411 or P235</li> <li>P410</li> </ul>	Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
Keep cool		Protect from sunlight.	public if the substance /
<ul> <li>may be omitted if P411 is given on the label</li> <li>Optional</li> </ul>		<ul> <li>Optional if P411 or P235 has already been assigned</li> <li>P411</li> </ul>	mixture is subject to legislation on hazardous waste. It is recommended to specify the site of
P240 Ground and bond container and		Store at temperatures not exceeding °C/ °F. - if temperature control is required	disposal while a reference to the applicable legislation is not
receiving equipment		(according to CLP Annex I, section	necessary.

- if electrostatically sensitive and able to generate an explosive atmosphere	2.15.2.3) or if otherwise deemed necessary.	★ Recommended for inclusion in the safety
<ul> <li>Optional unless other conditions deem it necessary</li> <li>Recommended for inclusion in the</li> </ul>	Manufacturer/supplier to specify temperature using the applicable temperature scale.	data sheet if there are specific disposal requirements above the normal expectation for
safety data sheet P280	<ul> <li>Highly recommended</li> <li>P420</li> </ul>	the disposal of chemicals. Specify the applicable regulation.
Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier to specify the appropriate type of equipment.	<ul> <li>Store separately.</li> <li>* Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information</li> </ul>	

# 1 7.3.2.15 Organic peroxides

2 Hazard categ	ory Signal word	Hazard statement	
3 Type C	Danger	H242 Heating may cause a fire	
4 Type D	Danger	H242 Heating may cause a fire	<u>C</u> 3
5 Type E	Warning	H242 Heating may cause a fire	
6 Type F	Warning	H242 Heating may cause a fire	•

Precautionary Statements

Prevention	Response	Storage	Disposal
P210	P370 + P378	P403	P501
Keep away from heat, hot surfaces, sparks, open flames and	In case of fire: Use to extinguish.	Store in a well-ventilated place.	Dispose of contents/container to
other ignition sources. No smoking.	- if water increases risk.	<ul> <li>except for temperature controlled self- reactive substances and mixtures or</li> </ul>	in accordance with
★ Highly recommended	Manufacturer/supplier to specify appropriate media.	organic peroxides because condensation and consequent freezing may take place	local/regional/ national/international regulations (to be specified).
P234	★ Highly recommended if	★ Highly recommended, in combination	Manufacturer/supplier to
Keep only in original packaging.	specific extinguishing media are required or appropriate	with P411 or P235	specify whether disposal
★ Highly recommended		P410	requirements apply to contents, container or both.
		Protect from sunlight.	
P235		★ Optional if P411 or P235 has already	★ Mandatory for the general public if the substance /
Keep cool		been assigned	mixture is subject to
- may be omitted if P411 is given on		P411	legislation on hazardous
the label		Store at temperatures not exceeding	waste. It is recommended
★ Optional		°C/°F.	to specify the site of disposal while a reference
P240		<ul> <li>if temperature control is required (according to CLP Annex I, section</li> </ul>	to the applicable legislation is not necessary.

Ground and bond container and receiving equipment - if electrostatically sensitive and able to generate an explosive atmosphere * Optional unless other conditions deem it necessary + Decommonded for inclusion in the	<ul> <li>2.15.2.3) or if otherwise deemed necessary.</li> <li> Manufacturer/supplier to specify temperature using the applicable temperature scale.</li> <li>★ Highly recommended</li> </ul>	<ul> <li>Recommended for inclusion in the safety data sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</li> </ul>
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>	P420 Store separately.	
P280	★ Recommended where incompatible	
Wear protective gloves/protective clothing/eye protection/face protection.	materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as	
Manufacturer/supplier to specify the appropriate type of equipment.	supplemental information	
★ Highly recommended		

# 7.3.2.16 Corrosive to metals

Hazard category
 1

Signal word Warning

# Hazard statement

H290 May be corrosive to metals



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# Precautionary Statements

Prevention	Response	Storage	Disposal
P234	P390	P406	
<ul> <li>Keep only in original packaging.</li> <li>Recommended for the general public</li> <li>Optional for industrial / professional users</li> <li>Recommended for inclusion in the safety data sheet</li> </ul>	Absorb spillage to prevent material damage. * Recommended	Store in a corrosion resistant/ container with a resistant inner liner. - may be omitted if P234 is given on the label Manufacturer/supplier to specify other compatible materials.	
		<ul> <li>★ Optional</li> <li>★ Do not use if P234 has already been assigned</li> </ul>	

**Guidance on Labelling and Packaging** 

#### **7.3.3 Specific precautionary statements for health hazards** 1

- 7.3.3.1 Acute Toxicity Oral 2
- 3

4	Hazard category	Signal word	Hazard statement	
5	1	Danger	H300 Fatal if swallowed	$\mathbf{V}$
6	2	Danger	H300 Fatal if swallowed	
7	3	Danger	H301 Toxic if swallowed	

Precautionary Statements			
Prevention	Response	Storage	Disposal
P264	P301 + P310	P405	P501
Wash thoroughly after handling.	IF SWALLOWED: Immediately call a POISON CENTER/doctor/	Store locked up.	Dispose of contents/container to
Manufacturer/supplier to specify parts of the body to be washed after handling.	Manufacturer/supplier to specify the	<ul> <li>★ Highly recommended for the general public</li> </ul>	in accordance with local/
<ul> <li>Highly recommended for the general public</li> </ul>	appropriate source of emergency medical advice.	★ Optional for industrial / professional users unless	regional/national/international regulations (to be specified).
<ul> <li>Recommended for industrial / professional users</li> </ul>	<ul><li>* Highly recommended</li><li>P321</li></ul>	other conditions (Member State legislation) deem it necessary	Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
P270	Specific treatment (see on this label).	necessary	<ul><li>★ Mandatory for the general</li></ul>
Do not eat, drink or smoke when using this product.	- if immediate administration of antidote is required.		public if the substance / mixture is subject to legislation on hazardous
★ Highly recommended for the general public for categories 1 and 2	Reference to supplemental first aid instruction.		waste. It is recommended to specify the site of disposal
★ Recommended for the general public	★ Highly recommended only in		while a reference to the applicable legislation is not

	for category 3	exceptional cases where specific	necessary.
*	Optional for industrial / professional	treatment is known and required	* Recommended for industrial /
	users	P330 in combination with P301	professional users if there are specific disposal
*	Recommended for inclusion in the safety data sheet	Rinse mouth.	requirements above the
		★ Highly recommended for the general public for categories 1 and 2 unless P301+P330+P331 is assigned	normal expectation for the disposal of chemicals It is recommended to specify the site of disposal while a
		<ul> <li>★ Recommended for the general public for category 3 unless P301+P330+P331 is assigned</li> </ul>	reference to the applicable legislation is not necessary.
		<ul> <li>Recommended for industrial / professional users for categories 1 and 2 unless P301+P330+P331 is assigned</li> </ul>	
		★ Optional for industrial / professional users for category 3	

# 1 **7.3.3.1 Acute Toxicity - Oral**

Hazard category
 4

Signal word Warning Hazard statement H302 Harmful if swallowed



5

4

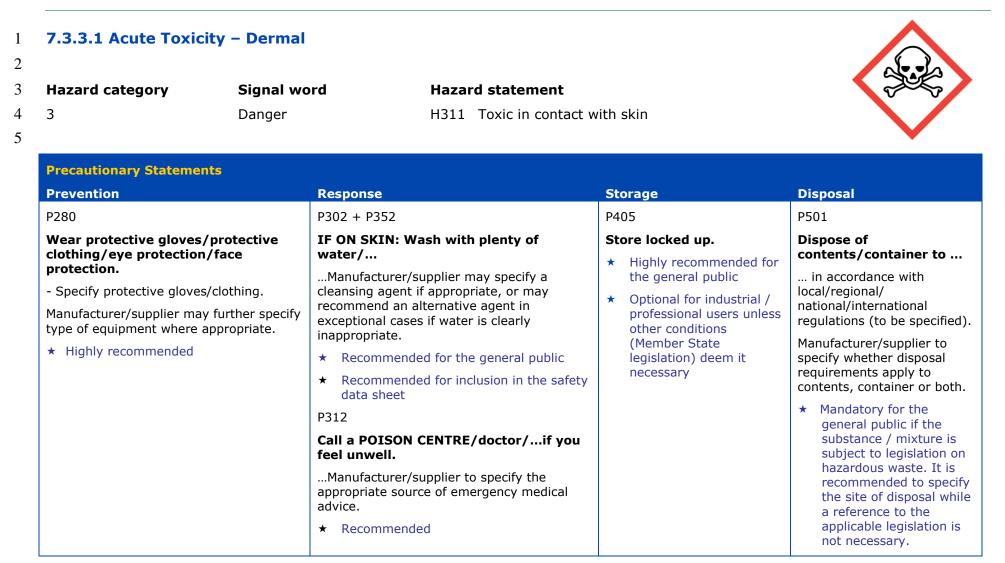
6

Precautionary Statements			
Prevention	Response	Storage	Disposal
P264	P301 + P312		P501
Wash thoroughly after handling.	IF SWALLOWED: Call a POISON CENTRE/doctor/if you feel unwell.		Dispose of contents/container to
<ul> <li>Manufacturer/supplier to specify parts of the body to be washed after handling.</li> <li>Recommended</li> <li>P270</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Recommended for the general public</li> </ul>	<ul> <li>Manufacturer/supplier to specify the appropriate source of emergency medical advice.</li> <li>* Optional</li> <li>P330</li> <li>Rinse mouth.</li> </ul>		<ul> <li> in accordance with local/regional/ national/international regulations (to be specified)</li> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> </ul>
<ul> <li>Optional for industrial / professional users</li> <li>Recommended for inclusion in the safety data sheet</li> </ul>	* Optional		<ul> <li>Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not</li> </ul>

	necessary.
	<ul> <li>Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>

1 2	7.3.3.1 Acute Toxici	ty – Dermal			
3	Hazard category	Signal word	Hazard statement		
4	1	Danger	H310 Fatal in contact w	ith skin	
5	2	Danger	H310 Fatal in contact w	ith skin	
	<b>Precautionary Statemen</b>	ts			
	Prevention		Response	Storage	Disposal
	P262		P302 + P352	P405	P501
	<ul> <li>Do not get in eyes, on sk</li> <li>Highly recommended</li> <li>P264</li> <li>Wash thoroughly after</li> <li>Manufacturer / supplier to so</li> <li>body to be washed after had</li> <li>Highly recommended</li> <li>P270</li> <li>Do not eat, drink or smoor product.</li> </ul>	r handling. specify parts of the indling.	<ul> <li>IF ON SKIN: Wash with plenty of water/</li> <li>Manufacturer/supplier may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</li> <li>* Recommended for the general public</li> <li>* Recommended for inclusion in the safety data sheet</li> <li>P310</li> </ul>	<ul> <li>Store locked up.</li> <li>Highly recommended for the general public</li> <li>Optional for industrial/professional users unless other conditions (Member State legislation) deem it necessary</li> </ul>	<ul> <li>Dispose of contents/container to</li> <li> in accordance with local/regional/ national/international regulations (to be specified).</li> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> <li>* Mandatory for the general public if the substance / mixture is subject to</li> </ul>
	<ul> <li>Highly recommended for</li> <li>Optional for industrial /</li> <li>Recommended for inclusheet</li> </ul>	professional users.	Immediately call a POISON CENTER/doctor/ Manufacturer/supplier to specify the appropriate source of emergency medical advice.		<ul> <li>legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> <li>Recommended for</li> </ul>

P280	combination with P302+P352	inclusion in the safety data sheet if there are specific
Wear protective gloves/protective clothing/eye protection/face protection.	P321	disposal requirements above the normal
- Specify protective gloves/clothing.	Specific treatment (see on this	expectation for the disposal of chemicals.
Manufacturer/supplier may further specify type of equipment where appropriate.      Highly recommended	<ul> <li>Iabel).</li> <li>- if immediate measures, such as specific cleansing agent, are advised</li> </ul>	Specify the applicable regulation.
	Reference to supplemental first aid instruction.	
	★ Highly recommended only in exceptional cases where specific treatment is known and required	
	P361 + P364	
	Take off immediately all contaminated clothing and wash it before reuse	
	* Recommended	



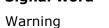
P321	* Recommended for
Specific treatment (see on this label).	industrial / professional users if there are specific
<ul> <li>- if immediate measures, such as specific cleansing agent, are advised</li> </ul>	disposal requirements above the normal expectation for the
Reference to supplemental first aid instruction.	disposal of chemicals. It is recommended to
<ul> <li>Highly recommended only in exceptional cases where specific treatment is known and required</li> </ul>	specify the site of disposal while a reference to the applicable legislation is not necessary.
P361+P364	
Take off immediately all contaminated clothing and wash it before reuse.	
* Recommended	



- 2 3
- Hazard category

Signal word

Hazard statement



H312 Harmful in contact with skin



4 5

Precautionary Statements			
Prevention	Response	Storage	Disposal
P280	P302 + P352		P501
<ul> <li>P280</li> <li>Wear protective gloves/ protective clothing /eye protection/face protection.</li> <li>- Specify protective gloves/clothing.</li> <li>Manufacturer/supplier may further specify type of equipment where appropriate.</li> <li>* Recommended</li> </ul>	<ul> <li>P302 + P352</li> <li>IF ON SKIN: Wash with plenty of water/</li> <li>Manufacturer/supplier may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</li> <li>★ Optional</li> <li>P312</li> <li>Call a POISON CENTRE/doctor/if you feel unwell.</li> <li>Manufacturer/supplier to specify the appropriate source of emergency medical advice.</li> <li>★ Recommended</li> <li>P321</li> <li>Specific treatment (see on this label).</li> </ul>		<ul> <li>P501</li> <li>Dispose of contents/container to</li> <li> in accordance with local/regional/national/internatio nal regulations (to be specified).</li> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> <li>* Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not</li> </ul>
	<ul> <li>if immediate measures, such as specific cleansing agent, are advised.</li> </ul>		<ul> <li>necessary.</li> <li>Recommended for industrial / professional users if there</li> </ul>

#### 142

<ul> <li>Reference to supplemental first aid instruction.</li> <li>★ Highly recommended only in exceptional cases where specific treatment is known and required</li> </ul>	are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a
P362 + P364	reference to the applicable
Take off contaminated clothing and wash it before reuse.	legislation is not necessary.
★ Optional	

is recommended to

specify the site of disposal while a

legislation) deem it necessary

1	7.3.3.1 Acute Toxicit	y - Inhalation			
2	Hazard category	Signal word	Hazard statement		
3	1	Danger	H330 Fatal if inhaled		
4	2	Danger	H330 Fatal if inhaled		
5					
	Precautionary Statements				
	Prevention		Response	Storage	Disposal
	P260		P304 + P340	P403 + P233	P501
	Do not breathe dust/fume/gas/mist/vapours/ spray.		IF INHALED: Remove person to fresh air and keep at rest in a	Store in a well-ventilated place. Keep container tightly	Dispose of contents/container to
	<ul><li>conditions.</li><li>★ Highly recommended</li></ul>	Highly recommended 71 e only outdoors or in a well-ventilated ea. Highly recommended for the general	<ul> <li>position comfortable for breathing.</li> <li>Highly recommended</li> <li>P310</li> </ul>	<ul> <li>closed.         <ul> <li>if the substance or mixture is volatile and may generate a hazardous atmosphere.</li> <li>Highly recommended unless P404 has already been assigned</li> </ul> </li> <li>P405         <ul> <li>Store locked up.</li> <li>Highly recommended for the general public</li> <li>Optional for industrial / professional users unless other conditions (Member State</li> </ul> </li> </ul>	 in accordance with local/regional/national/in ternational regulations (to be specified).
	area.		Immediately call a POISON CENTRE/doctor/ Manufacturer/supplier to specify the appropriate source of emergency medical advice.		<ul> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> <li>Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to</li> </ul>
	<ul> <li>★ Optional for industrial/pr</li> </ul>	rofessional users	<ul> <li>Highly recommended, in combination with P304+P340</li> </ul>		
	P284 [In case of inadequate ve respiratory protection.	entilation] wear	P320 Specific treatment is urgent (see on this label)		

- if immediate administration of

 text in square brackets may be used if additional information is provided with the

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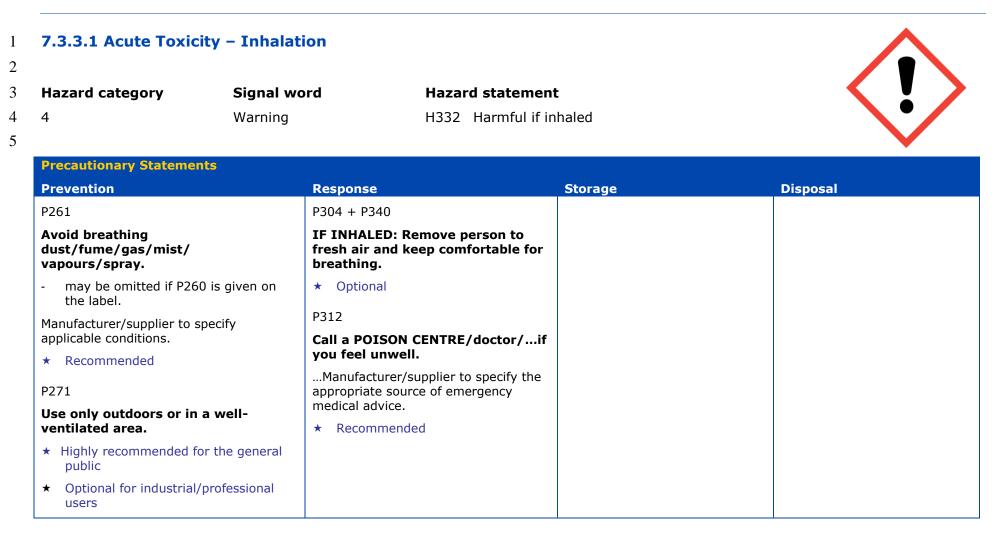
<ul> <li>chemical at the point of use that explains what type of ventilation would be adequate for safe use.</li> <li>Manufacturer/supplier to specify equipment.</li> <li>* Recommended for industrial/professional users in exceptional cases where inadequate ventilation/organisational measures cannot sufficiently prevent inhalation</li> <li>* Recommended for inclusion in the safety data sheet</li> </ul>	<ul> <li>antidote is required.</li> <li> Reference to supplemental first aid instruction.</li> <li>★ Highly recommended only in exceptional cases where specific treatment is known and required</li> </ul>	<ul> <li>reference to the applicable legislation is not necessary.</li> <li>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>
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is recommended to

7.3.3.1 Acute Toxici	ty – Inhalation				
Hazard category	Signal word	Hazard statement			
3	Danger	H331 Toxic if inhaled			
Precautionary Statemen	ts				•
Prevention	Response		St	orage	Disposal
P261	P304 + P34	40	P4	03 + P233	P501
Avoid breathing dust/fume/gas/mist/ vapours/spray.	and keep	ED: Remove person to fresh air comfortable for breathing.	pla	ore in a well-ventilated ace. Keep container tightly osed.	Dispose of contents/container to 
- may be omitted if P260 the label.	is given on P311	mended	vo	f the substance or mixture is latile and may generate a zardous atmosphere.	in accordance with local/regional/ national/international
Manufacturer/supplier to sp applicable conditions.		SON CENTER/doctor/ urer/supplier to specify the		Highly recommended	regulations (to be specified).
★ Recommended		e source of emergency medical	P4	05	Manufacturer/supplier to
P271	* Recom	mended, in combination with	St	ore locked up.	specify whether disposal requirements apply to
Use only outdoors or in a ventilated area.			*	Highly recommended for the general public	contents, container or both.
<ul> <li>Highly recommended for general public</li> </ul>	Specific ti	reatment (see on this label)	*	★ Optional for industrial / professional users unless other conditions (Member	<ul> <li>Mandatory for the general public if the substance / mixture</li> </ul>
<ul> <li>Optional for industrial/p users</li> </ul>	require			State legislation) deem it necessary	is subject to legislation on hazardous waste. It
	Reference	e to supplemental first aid			is recommended to

instruction.

<ul> <li>Highly recommended only in exceptional cases where specific treatment is known and required</li> </ul>		specify the site of disposal while a reference to the applicable legislation is not necessary.
	*	Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.





Precautionary Statements			
Prevention	Response	Storage	Disposal
P260	P301 + P330 + P331	P405	P501
Do not breathe dust/fume/gas/mist/ vapours/spray.	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	<pre>Store locked up. * Highly recommended for the concert multic</pre>	Dispose of container to
Manufacturer/supplier to specify applicable conditions.	<ul> <li>Highly recommended for the general public, provided that medical advice indicates that the statement is appropriate</li> </ul>	<ul> <li>the general public</li> <li>Optional for industrial / professional users unless</li> </ul>	in accordance with local/regional/ national/international regulations (to be specified).
<ul> <li>specify do not breathe dusts or mists.</li> <li>If inhalable particles of dusts or mists may occur during use.</li> <li>Highly recommended</li> </ul>	<ul> <li>Recommended for industrial / professional users, provided that medical advice indicates that the statement is appropriate</li> </ul>	other conditions (Member State legislation) deem it necessary	Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
P264	P303 + P361 + P353		<ul> <li>Mandatory for the general public if the substance /</li> </ul>
<ul> <li>Wash thoroughly after handling.</li> <li>Manufacturer/supplier to specify parts of the body to be washed after handling.</li> <li>* Highly recommended for the general public, unless P280 has already</li> </ul>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. - text in square brackets to be included where the manufacturer/supplier considers it appropriate for the specific chemical.		mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

been accigned	★ Highly recommended	* Recommended for
been assigned	- /	industrial / professional
<ul> <li>Highly recommended for industrial / professional users, unless P280 has</li> </ul>	P363	users if there are specific
already been assigned	Wash contaminated clothing before reuse.	disposal requirements above the normal
P280	★ Recommended for the general public	expectation for the
Wear protective gloves/protective		disposal of chemicals. It is recommended to specify
clothing/eye protection/face protection.	★ Recommended for inclusion in the safety data sheet	the site of disposal while a reference to the applicable
- Specify protective gloves/clothing and	P304 + P340	legislation is not
eye/face protection.	If INHALED: Remove person to fresh air	necessary.
Manufacturer/supplier may further	and keep comfortable for breathing.	
specify type of equipment where appropriate.	★ Optional	
★ Highly recommended	P310	
	Immediately call a POISON CENTER/doctor/	
	Manufacturer/supplier to specify the appropriate source of emergency medical advice.	
	<ul> <li>★ Highly recommended, in combination with P303+P361+P353, P305+P351+ P338 or P301 + P330 + P331</li> </ul>	
	P321	
	Specific treatment (see on this label).	
	Reference to supplemental first aid instruction.	
	Manufacturer/supplier may specify a	

cleansing agent if appropriate.	
★ Highly recommended only in exceptional cases where specific treatment is known and required	
P305 + P351 + P338	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
★ Highly recommended	



Precautionary Statements			
Prevention	Response	Storage	Disposal
P264	P302 + P352		
Wash thoroughly after	IF ON SKIN: Wash with plenty of water/		
handling. Manufacturer/supplier to specify parts of the body to be washed after	Manufacturer/supplier may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.		
handling.	★ Optional for the general public		
* Recommended	$\star$ Recommended for inclusion in the safety data sheet		
P280			
Wear protective gloves/protective	P321		
clothing/eye protection/face	Specific treatment (see on this label).		
protection.	Reference to supplemental first aid instruction.		
- Specify protective gloves.	Manufacturer/supplier may specify a cleansing agent if		
Manufacturer/supplier may further	appropriate.		
specify type of equipment where appropriate.	<ul> <li>Recommended only in exceptional cases where specific treatment is known and required</li> </ul>		
* Recommended			

P332 + P313	
If skin irritation occurs: Get medical advice/attention.	
- may be omitted when P333 + P313 is given on the label.	
★ Optional	
P362 + P364	
Take off contaminated clothing and wash it before reuse.	
★ Optional	
★ Recommended for inclusion in the safety data sheet	

#### 1 **7.3.3.3 Serious eye damage - only**<sup>42</sup>

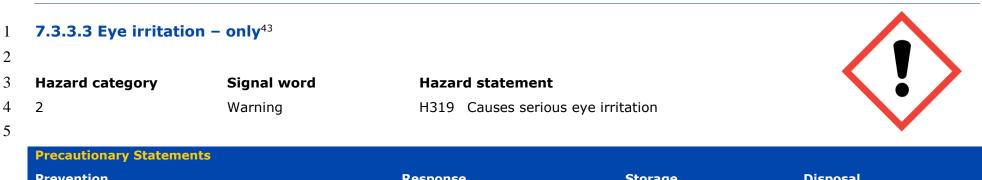
- 2 3
- Hazard categorySignal word1Danger
- 4

**Precautionary Statements** Disposal Prevention Response Storage P280 P305 + P351 + P338 Wear protective gloves/protective IF IN EYES: Rinse cautiously with clothing/eye protection/face water for several minutes. Remove protection. contact lenses, if present and easy to do. Continue rinsing. - Specify eye/face protection. ★ Highly recommended Manufacturer/supplier may further specify type of equipment where appropriate. P310 ★ Highly recommended Immediately call a POISON CENTER/ doctor/... ...Manufacturer/supplier to specify the appropriate source of emergency medical advice. ★ Highly recommended, in combination with P305+P351+P338

H318 Causes serious eye damage

Hazard statement

<sup>&</sup>lt;sup>42</sup> Where a chemical is classified as skin corrosion Sub-Category 1A, 1B, 1C or Category 1, labelling for serious eye damage/eye irritation can be omitted as this information is already included in the hazard statement for skin corrosion Category 1 (H314).



Prevention	Response	Storage	Disposal
P264	P305 + P351 + P338		
Wash thoroughly after handling.	IF IN EYES: Rinse cautiously with water for several		
Manufacturer/supplier to specify parts of the body to be washed after handling.	minutes. Remove contact lenses, if present and easy to		
$\star$ Optional for the industrial/ professional users	do. Continue rinsing.		
★ Recommended for the general public	★ Recommended for the general public		
P280	★ Recommended for inclusion in		
Wear protective gloves/protective clothing/eye protection/face protection.	the safety data sheet		
- Specify eye/face protection.	P337 + P313		
Manufacturer/supplier may further specify type of equipment where appropriate.	If eye irritation persists: Get medical advice/attention.		
★ Recommended	★ Recommended		

<sup>&</sup>lt;sup>43</sup> Where a chemical is classified as skin corrosion Sub-Category 1A, 1B, 1C or Category 1, labelling for serious eye damage/eye irritation can be omitted as this information is already included in the hazard statement for skin corrosion Category 1 (H314).

## 7.3.3.4 Respiratory sensitisation

1 2

3

Hazard category 4 1, 1A, 1B 5

Signal word Danger

Hazard statement

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled



Precautionary Statements			
Prevention	Response	Storage	Disposal
P261	P304 + P340		P501
Avoid breathing dust/fume/gas/mist/ vapours/spray.	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		Dispose of contents/container to in accordance with
<ul> <li>may be omitted if P260 is given on the label.</li> <li>Manufacturer/supplier to specify</li> </ul>	<ul> <li>Highly recommended</li> <li>P342 + P311</li> </ul>		local/regional/ national/international regulations (to be specified).
applicable conditions.	If experiencing respiratory		Manufacturer/supplier to specify
★ Highly recommended	symptoms: Call a POISON CENTER or doctor/physician.		whether disposal requirements apply to contents, container or both.
P284	★ Highly recommended		
[In case of inadequate ventilation] wear respiratory protection.			<ul> <li>Mandatory for the general public if the substance / mixture is subject to</li> </ul>
<ul> <li>text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.</li> </ul>			legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not
Manufacturer/supplier to specify			necessary.

equipment.	★ Recommended for industrial
<ul> <li>Recommended for industrial/professional users in exceptional cases where inadequate ventilation/organisational measures cannot sufficiently prevent inhalation</li> <li>Recommended for inclusion in the safety data sheet</li> </ul>	/ professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

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# 7.3.3.4 Skin sensitisation Hazard category 1, 1A, 1B Warning H317 May cause an allergic skin reaction

Prevention	Response	Storage	Disposal
P261	P302 + P352		P501
Avoid breathing dust/fume/gas/mist/ vapours/spray.	IF ON SKIN: Wash with plenty of water/		Dispose of contents/container to
<ul> <li>may be omitted if P260 is given on the label.</li> <li>Manufacturer/supplier to specify applicable conditions.</li> <li>* Recommended</li> <li>P272</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>* Not intended to be used for the general</li> </ul>	<ul> <li>Manufacturer/supplier may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</li> <li>* Recommended for the general public</li> <li>* Recommended for inclusion in the safety data sheet</li> <li>P333 + P313</li> <li>If skin irritation or rash occurs: Get</li> </ul>		<ul> <li> in accordance with local/regional/ national/international regulations (to be specified).</li> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> <li>Mandatory for the general public if the substance / mixture is subject to</li> </ul>
<ul><li>public</li><li>Optional for industrial/professional users</li></ul>	<pre>medical advice/attention. * Recommended</pre>		legislation on hazardous waste. It is recommended
P280 Wear protective gloves/protective clothing/eye protection/face protection.	P321 Specific treatment (see on this label) Reference to supplemental first aid		<ul> <li>to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> <li>* Recommended for</li> </ul>

#### 158

1 2 3

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<ul> <li>Specify protective gloves.</li> <li>Manufacturer/supplier may further specify type</li> </ul>	instruction. Manufacturer/supplier may specify a	industrial / professional users if there are specific
of equipment where appropriate.	cleansing agent if appropriate.	disposal requirements above the normal
★ Highly recommended	<ul> <li>Highly recommended only in exceptional cases where specific treatment is known and required</li> <li>P362+P364</li> </ul>	expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable
	Take off contaminated clothing and wash it before reuse.	legislation is not necessary.
	* Recommended	

2	Hazard category	Signal word	lazard stateme	ent	
3 4 5	1A and 1B	Danger		e genetic defects (state route of exposure if it is ely proven that no other routes of exposure cause d)	
6 7 8	2	Warning		l of causing genetic defects (state route of exposure clusively proven that no other routes of exposure cause d)	V

Precautionary Statements			
Prevention	Response	Storage	Disposal
P201	P308 + P313	P405	P501
Obtain special instructions before use.	IF exposed or concerned: Get medical advice/attention.	Store locked up.	Dispose of contents/container to
<ul> <li>Highly recommended for category 1A and 1B</li> <li>Recommended for category 2</li> <li>P202</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Optional where P201 is assigned</li> </ul>	<ul> <li>Highly recommended for category 1A and 1B</li> <li>Recommended for category 2</li> </ul>	<ul> <li>Highly recommended for the general public<sup>44</sup></li> <li>Optional for industrial/professional users unless other conditions (Member State legislation) deem it necessary</li> </ul>	<ul> <li> in accordance with local/regional/ national/international regulations (to be specified).</li> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> <li>Mandatory for the general public if the substance / mixture is subject to</li> </ul>

<sup>&</sup>lt;sup>44</sup> Substances and mixtures which are listed in Appendix 1-6 of Annex XVII to Regulation (EC) No 1907/2006 (REACH) and which are assigned H340, H350 or H360 are restricted to industrial / professional users and normally not supplied to the general public (see entry 28, 29 and 30 in Annex XVII to REACH, as amended). The list of subsequent amendments of Annex XVII is accessible at <u>http://echa.europa.eu/web/guest/regulations/reach/legislation</u>.

P280	legislation on hazardous waste. It is recommended to
Wear protective gloves/protective clothing/eye protection/face protection.	specify the site of disposal while a reference to the
Manufacturer/supplier to specify the appropriate type of equipment.	applicable legislation is not necessary.
★ Highly recommended	<ul> <li>Recommended for industrial professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>

#### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

### 1 7.3.3.6 Carcinogenicity

2	Hazard category	Signal word	Hazard statement	
3 4	1A and 1B	Danger	H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	
5 6 7	2	Warning	H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause t hazard)	he

Precautionary Statements				
Prevention	Response	Storage	Disposal	
P201	P308 + P313	P405	P501	
Obtain special instructions before use.	IF exposed or concerned: Get	Store locked up.	Dispose of contents/container	
<ul> <li>Highly recommended for category 1A and 1B</li> <li>Recommended for category 2</li> <li>P202</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Optional where P201 is assigned</li> </ul>	<ul> <li>medical advice/attention.</li> <li>* Highly recommended for category 1A and 1B</li> <li>* Recommended for category 2</li> </ul>	<ul> <li>Highly recommended for the general public<sup>45</sup></li> <li>Optional for industrial/professional users unless other conditions (Member State legislation) deem it necessary</li> </ul>	<ul> <li>to</li> <li> in accordance with local/regional/ national/international regulations (to be specified).</li> <li>Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.</li> <li>* Mandatory for the general public if the substance / mixture is subject to legislation on hazardous</li> </ul>	

<sup>&</sup>lt;sup>45</sup> Substances and mixtures which are listed in Appendix 1-6 of Annex XVII to Regulation (EC) No 1907/2006 (REACH) and which are assigned H340, H350 or H360 are restricted to industrial / professional users and normally not supplied to the general public (see entry 28, 29 and 30 in Annex XVII to REACH as amended). The list of subsequent amendments of Annex XVII is accessible at: <u>http://echa.europa.eu/web/guest/regulations/reach/legislation</u>.

P280 Wear protective gloves/protective clothing/eye protection/face protection.	waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.
Manufacturer/supplier to specify the appropriate type of equipment. * Highly recommended	<ul> <li>Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>

#### 7.3.3.7 Reproductive toxicity

2	Hazard category	Signal word	Hazard statement	
3 4 5 6	1A and 1B	Danger	<ul> <li>H360 May damage fertility or the unborn child (state specific effect if known)</li> <li>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</li> </ul>	
7 8 9 10	2	Warning	<ul> <li>H361 Suspected of damaging fertility or the unborn child (state specific effect if known)</li> <li>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</li> </ul>	

Precautionary Statements				
Prevention	Response	Storage	Disposal	
P201	P308 + P313	P405	P501	
Obtain special instructions before use.	IF exposed or concerned: Get	Store locked up.	Dispose of contents/container	
<ul> <li>* Highly recommended for category 1A and 1B</li> <li>* Recommended for category 2</li> <li>P202</li> <li>Po not handle until all safety precautions have been read and understood.</li> </ul>	<ul> <li>medical advice/attention.</li> <li>Highly recommended for category 1A and 1B</li> <li>Recommended for category 2</li> </ul>	<ul> <li>Highly recommended for the general public<sup>46</sup></li> <li>Optional for industrial / professional users unless other conditions (Member State legislation) deem it necessary</li> </ul>	to in accordance with local/regional/ national/international regulations (to be specified). Manufacturer/supplier to specify whether disposal requirements apply to contents, container or	

<sup>&</sup>lt;sup>46</sup> Substances and mixtures which are listed in Appendix 1-6 of Annex XVII to Regulation (EC) No 1907/2006 (REACH) and which are assigned H340, H350 or H360 are restricted to industrial / professional users and normally not supplied to the general public (see entry 28, 29 and 30 in Annex XVII to REACH as amended). The list of subsequent amendments of Annex XVII is accessible at ECHA website: <a href="http://echa.europa.eu/web/guest/regulations/reach/legislation">http://echa.europa.eu/web/guest/regulations/reach/legislation</a>).

★ Optional where P201 is assigned	both.
P280 Wear protective gloves/protective	<ul> <li>Mandatory for the general public if the substance / mixture is subject to</li> </ul>
clothing/eye protection/face protection.	legislation on hazardous
Manufacturer/supplier to specify the appropriate type of equipment.	waste. It is recommended to specify the site of disposal while a reference to the
★ Highly recommended	applicable legislation is not necessary.
	<ul> <li>Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>

1	1 7.3.3.7 Reproductive toxicity			No hazard
2	Hazard category	Signal word	Hazard statement	pictogram
3 4	Additional category for effects on or via lactation	No signal word	H362 May cause harm to breast-fed children	

Precautionary Statements				
Prevention	Response	Storage	Disposal	
P201	P308 + P313			
Obtain special instructions before use.	IF exposed or concerned: Get medical advice/attention.			
★ Highly recommended	★ Recommended			
P260				
Do not breathe dust/fume/gas/mist/ vapours/spray.				
Manufacturer/supplier to specify applicable conditions.				
- Specify do not breathe dusts or mists.				
<ul> <li>if inhalable particles of dusts or mists may occur during use.</li> </ul>				
★ Highly recommended				
P263				
Avoid contact during pregnancy and while nursing.				
★ Highly recommended				

P264
Wash thoroughly after handling.
Manufacturer / supplier to specify parts of the body to be washed after handling.
★ Optional
P270
Do not eat, drink or smoke when using this product.
$\star$ Recommended for the general public
<ul> <li>Optional for industrial / professional users</li> </ul>
<ul> <li>Recommended for inclusion in the safety data sheet</li> </ul>

be specified).

Manufacturer/supplier to specify whether disposal requirements apply

to contents, container or both.

★ Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is

recommended to specify the site

of disposal while a reference to

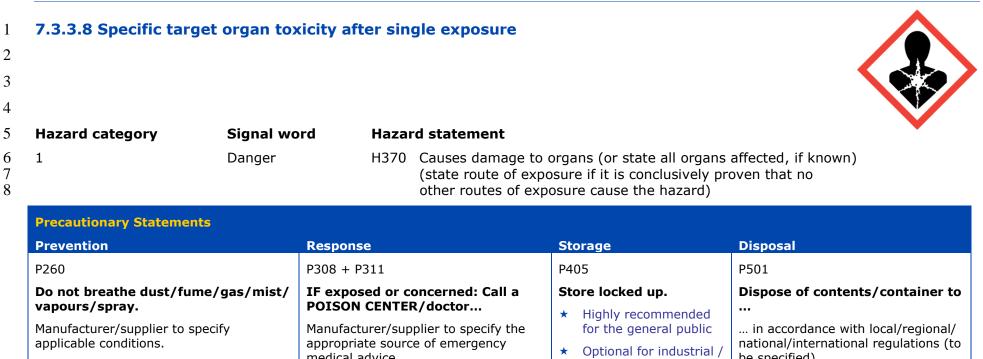
the applicable legislation is not

professional users unless other conditions

legislation) deem it

(Member State

necessary



Wash thoroughly after handling.		
P264	- if immediate measures are required.	
indicates inhalation as a route of exposure	Specific treatment (see on this label)	
is possible, e.g. through spraying or inhalable dust or in case H370	P321	
<ul> <li>Highly recommended where the substance / mixture is volatile or a gas or where exposure via inhalation</li> </ul>	<ul> <li>Highly recommended</li> </ul>	

instruction.

... Reference to supplemental first aid

thoroughly after hangling

... Manufacturer / supplier to specify parts

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★ Recommended for inclusion in the safety data sheet
--

public if the substance / mixture is subject to legislation on hazardous

waste. It is recommended to

specify the site of disposal

7.3.3.8 Speci	fic target organ to					
Hazard catego	ry Signal wo	ord Hazard statement		•		
2	Warning		ge to organs (or state all orga xposure if it is conclusively pro the hazard)			
Precautionary Statements						
Prevention		Response	Storage	Disposal		
P260		P308 + P311	P405	P501		
Do not breathe o vapours/spray.	dust/fume/gas/mist/	IF exposed or concerned: Call a POISON CENTER/ doctor/	Store locked up. <ul> <li>Highly recommended for</li> </ul>	Dispose of contents/container to		
Manufacturer/supp applicable condition		Manufacturer/supplier to specify the appropriate source of emergency	<ul> <li>A fightly recommended for the general public</li> <li>* Optional for industrial /</li> </ul>	in accordance with local/regional/		
★ Highly recomm		medical advice		national/international regulations		

P264

Wash ... thoroughly after handling.

... Manufacturer / supplier to specify parts of the body to be washed after handling.

170

★ Optional P270	while a reference to the applicable legislation is no necessary.
Do not eat, drink or smoke when using this product.	<ul> <li>Recommended for industri professional users if there</li> </ul>
★ Recommended for the general public	specific disposal requireme
★ Optional for industrial / professional users	above the normal expectat for the disposal of chemica It is recommended to spec
★ Recommended for inclusion in the safety data sheet	the site of disposal while a reference to the applicable legislation is not necessary

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7.3.3.8 Specific tar	get organ toxicity	after single exposure		
Hazard category	Signal word	Hazard statement		
3	Warning	H335 May cause respira H336 May cause drowsi		
Precautionary Stateme	nts			
Prevention	Resp	onse	Storage	Disposal
P261	P304	+ P340	P403 + P233	P501
Avoid breathing dust/fume/gas/mist/ vapours/spray.	fresh	IHALED: Remove person to air and keep comfortable reathing.	Store in a well-ventilated place. Keep container tightly closed.	Dispose of contents/container to
<ul> <li>may be omitted if P260 label.</li> <li>Manufacturer/supplier to</li> </ul>	is given on the $\star$ 0	ptional	<ul> <li>- if the substance or mixture is volatile and may generate a hazardous atmosphere.</li> </ul>	in accordance with local/regional/ national/international regulations (to be specified).
* Recommended	Call a CENT	a POISON RE/doctor/if you feel	★ Recommended unless P404 is assigned	Manufacturer/supplier to specify whether disposal requirements
P271 Use only outdoors or in ventilated area.	<b>n a well-</b> the a	ufacturer/supplier to specify ppropriate source of emergency cal advice.	P405 Store locked up.	<ul> <li>apply to contents, container or both.</li> <li>Mandatory for the general public if the substance /</li> </ul>
<ul> <li>Highly recommended public</li> <li>Optional for industrial users</li> </ul>	for the general $\star$ R	ecommended	<ul> <li>Highly recommended for the general public</li> <li>Optional for industrial / professional users unless other conditions (Member State legislation) deem it necessary</li> </ul>	mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

#### 

	<ul> <li>Recommended for industrial</li> <li>/ professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>
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#### 7.3.3.9 Specific target organ toxicity after repeated exposure 2 Hazard category Signal word Hazard statement H372 Causes damage to organs (state all organs affected, if known) 5 1 Danger 6 through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) 7

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Precautionary Statements			
Prevention	Response	Storage	Disposal
P260	P314		P501
Do not breathe dust/fume/gas/mist/ vapours/spray.	Get medical advice/attention if you feel unwell.		Dispose of contents/container to
Manufacturer/supplier to specify applicable conditions.	★ Recommended		in accordance with local/regional/ national/international regulations
<ul> <li>Highly recommended where the substance / mixture is volatile or a gas or</li> </ul>			(to be specified).
where exposure via inhalation is possible, e.g. through spraying or inhalable dust or in case H372 indicates inhalation as a route of exposure			Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
P264			★ Mandatory for the general
Wash thoroughly after handling.			public if the substance / mixture is subject to
Manufacturer / supplier to specify parts of the body to be washed after handling.			legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the

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* Optional P270	applicable legislation is not necessary.
Do not eat, drink or smoke when using this product.	<ul> <li>Recommended for industrial / professional users if there are specific disposal requirements</li> </ul>
★ Recommended for the general public	above the normal expectation
★ Optional for industrial / professional users	for the disposal of chemicals. It is recommended to specify
★ Recommended for inclusion in the safety data sheet	the site of disposal while a reference to the applicable legislation is not necessary.

7.3.3.9 Specific tar			-	
Hazard category 2	Signal word Warning	kr ex	t <b>atement</b> ay cause damage to organs (state al own) through prolonged or repeated posure if it is conclusively proven th use the hazard)	d exposure (state route of
Precautionary Stateme	nts		, ,	
Prevention	Re	sponse	Storage	Disposal
P260	P3:	14		P501
Do not breathe dust/fume/gas/mist/v		t medical advice, el unwell.	attention if you	Dispose of contents/containe to
<ul> <li>Manufacturer/supplier to sapplicable conditions.</li> <li>Highly recommended substance / mixture is or a gas or where exp inhalation is possible, spraying or inhalable H373 indicates inhalation of exposure</li> </ul>	where the s highly volatile osure via e.g. through dust or in case	Recommended		in accordance with local/regional/ national/international regulations (to be specified). Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.
				<ul> <li>Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the</li> </ul>

		applicable legislation is not necessary.
	*	Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

7.3.3.10 Aspiratio	n hazard		
Hazard category	Signal word	lazard statement	
1	Danger H	1304 May be fatal if swallowed an	d enters airways
Precautionary Stateme	ents		
Prevention	Response	Storage	Disposal
	P301 + P310	P405	P501
	IF SWALLOWED: Immediately	Store locked up.	Dispose of contents/container to
	call a POISON CENTER/ doctor/	<ul> <li>Highly recommended for the general public</li> <li>Optional for industrial / professional users unless other conditions (Member State legislation) deem it necessary</li> </ul>	in accordance with local/regional/ national/international regulations (to be
	Manufacturer/supplier to specify the appropriate source of emergency medical advice.		specified). Manufacturer/supplier to specify whether disposal requirements apply to contents,
	★ Highly recommended, in		container or both.
	combination with P331		<ul> <li>Mandatory for the general public if the substance / mixture is subject to legislati on hazardous waste. It is recommended</li> </ul>
	P331 <b>Do NOT induce vomiting.</b>		specify the site of disposal while a refe
			to the applicable legislation is not necess
	<ul> <li>Highly recommended, in combination with P301 +P310</li> </ul>		<ul> <li>Recommended for industrial / professional users if there are specific disposal requirements above the normal expectati for the disposal of chemicals. It is recommended to specify the site of dispo while a reference to the applicable legislat is not necessary.</li> </ul>

# **7.3.4 Specific precautionary statements for environmental hazards**

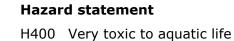
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# **7.3.4.1** Hazardous to the aquatic environment – short-term (acute) aquatic hazard

4	Hazard category	Signal word	Haza
5	1	Warning	H400



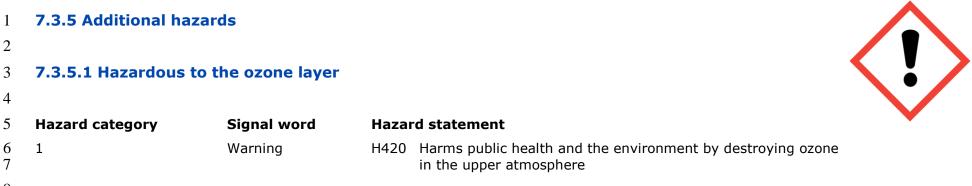


Precautionary Statements				
Prevention	Response	Storage	Disposal	
P273	P391		P501	
Avoid release to the environment.	Collect spillage.		Dispose of contents/container to	
<ul><li>if this is not the intended use.</li><li>Highly recommended</li></ul>	★ Highly recommended		in accordance with local/regional/ national/international regulations (to be specified).	
			Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both.	
			<ul> <li>Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary</li> </ul>	
			<ul> <li>Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</li> </ul>	

#### Guidance on Labelling and Packaging Draft PUBLIC version 3.0 January 2017

#### 7.3.4.1 Hazardous to the aquatic environment - long-term (chronic) aquatic hazard 1 2 Signal word 3 Hazard category Hazard statement Warning H410 Very toxic to aquatic life with long lasting effects 4 1 5 2 No signal word H411 Toxic to aquatic life with long lasting effects **Precautionary Statements** Prevention Response Storage Disposal P273 P391 P501 Avoid release to the Collect spillage. Dispose of contents/container to ... environment. ★ Highly recommended ... in accordance with local/regional/ national/international - if this is not the intended use. regulations (to be specified). ★ Highly recommended Manufacturer/supplier to specify whether disposal requirements apply to contents, container or both. ★ Mandatory for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. \* Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

1	7.3.4.1 Hazardous to th	nic) aquatic hazard	No hazard pictogram			
2	Hazard category	Signal word	word Hazard statement			is used
3	3 No signal word		H412	H412 Harmful to aquatic life with long lasting effects		
4	4 No signal word H413 May cause long lasting harmful effects to aquat Precautionary Statements		g lasting harmful effects to aquatic life			
	Prevention	Response		Storage	Disposal	
	P273				P501	
	Avoid release to the environ	ment.			Dispose of contents/container to	
	<ul> <li>if this is not the intended use</li> <li>★ Recommended</li> </ul>				in accordance with local/regional/ nation regulations (to be specified).	nal/international
					Manufacturer/supplier to specify whether or requirements apply to contents, container	-
					<ul> <li>Mandatory for the general public if the mixture is subject to legislation on haz is recommended to specify the site of reference to the applicable legislation</li> </ul>	zardous waste. It disposal while a
					<ul> <li>Recommended for industrial / professi are specific disposal requirements abo expectation for the disposal of chemica recommended to specify the site of dis reference to the applicable legislation</li> </ul>	ve the normal als. It is sposal while a



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Precautionary Statements			
Prevention	Response	Storage	Disposal
			P502
			Refer to manufacturer or supplier for information on recovery or recycling
			★ Mandatory for the general public
			★ Highly recommended for industrial / professional users

#### 183

# 7.4. Examples for the selection of precautionary statements for the label

- 3 This section provides practical examples on how to select precautionary statements for
- 4 various model substances. The set of precautionary statements to be prioritised for the label 5 is highlighted in **bold underlined (highly recommended)** and <u>underlined</u>
- 6 <u>(recommended)</u>, while the optional statements appear in normal letters (no highlighting)
- 7 and the statements not to be used/unless condition applies/ inclusion on safety data sheet only 8 are marked in grey colour.
- 9 Please note that even if a substance or mixture has the same hazards as one of the
- 10 following examples, another set of precautionary statements might be appropriate based on
- 11 the specific conditions for use given in the tables above.
- 12

## Example A. Substance X assigned a physical and various health hazard classifications

15

#### 16 A. Classification and hazard statements:

- 17 Flam. Liq. 2 H225 Highly flammable liquid and vapour
- 18 Acute Tox. 3 (oral) H301 Toxic if swallowed
- 19 Acute Tox. 3 (dermal) H311 Toxic in contact with skin
- 20 Acute Tox. 3 (inhalation) H331 Toxic if inhaled
- 21 STOT-SE 1 H370 Causes damage to liver through dermal exposure
- 22
- 23 <u>B. Further information:</u>
- Substance X is presumed to be volatile, but not so as to generate a potentially explosiveatmosphere.
- 26 There is possible exposure via inhalation.
- Specific extinguishing media are not necessary. Specific treatment/measures is/are noturgently required.
- 29 No specific disposal precautionary statements are required since the substance is not
- 30 intended to be used by the general public, but only by industrial/professional users.
- 31
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## <u>C. Precautionary statements on the basis of the classification (see Annex I and IV to CLP)</u> and according to the guidance:

Acute Tox. 3 (Oral)	Acute Tox. 3 (Dermal)	Acute Tox. 3 (Inhalation)	STOT-SE 1	Flam. Liq. 2
P264	<u>P280</u>	P261	<u>P260</u>	<u>P210</u>
P270		P271	P264	<u>P233</u>
			P270	P240
				P241
				P242
				P243
				P280
<u> P301 + P310</u>	P312	<u>P304 + P340</u>	<u> P308 + P311</u>	P303 + P361 + P353
P321	P321	<u>P311</u>	P321	P370 + P378
P330	P361 + P364	P321		
	P363			
	P302 + P352			
P405	P405	<u> P403 + P233</u>	P405	P403 + P235
		P405		
P501	P501	P501	P501	P501

3

#### 4 Explanation on use of bolding, underline and grey marker:

5 **PXXX** = highly recommended; <u>PXXX</u> = recommended; PXXX = optional; <u>PXXX</u> = not to be used/unless condition applies/inclusion on safety data sheet only

7

8 D. Selection of highly recommended and recommended precautionary statements:

9 Where the same statement is assigned to different hazards, but with different priority, the

10 most conservative approach is taken. Where appropriate, precautionary statements are

11 combined into a single combination statement. Duplication of individual phrases is avoided.

12 The selection results in the following set of P-statements:

13 14	<u>P210</u>	<u>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</u>
15	<u>P260</u>	Do not breathe dust/fume/gas/mist/vapours/spray.
16 17	<u>P280</u>	Wear protective gloves/protective clothing/eye protection/face protection.
18	<u>P301+P310</u>	IF SWALLOWED: Immediately call a POISON CENTRE/doctor/
19	<u>P308+P311</u>	IF exposed or concerned: Call a POISON CENTRE/doctor/

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1 2	<u>P304+P340</u>	<u>IF INH/</u> breathi	ALED: Remove person to fresh air and keep comfortable for ng.
3	<u>P403+P233</u>	<u>Store</u>	in a well-ventilated place. Keep container tightly closed.
4			
5	E. Result:		
6 7 8 9 10	substantial reduct applicable statemeters	ion is a ents foi s. For e	guidance results in seven precautionary statements. A chieved compared to the starting set of potentially the hazard label, assignable on the basis of the example: P261 can be omitted, as P260 is already
11 12 13 14 15 16 17	needs to be prepare heading 2.2 ("Label The de-selected stat	d, the st element cements	statements must be placed on the CLP hazard label. As an SDS tatements would also have to be included in the SDS, under "s"), see the <i>Guidance on the compilation of safety data sheets</i> . can be introduced under the relevant headings of the SDS to fessional user with sufficient information to handle the
18 19 20	Example B. Subs classification	stance	Y assigned a severe physical and health hazard
21	A. Classification and	hazard	statements:
22	Ox. Sol. 1	H271	May cause fire or explosion; strong oxidiser
23	Skin Corr. 1A	H314	Causes severe skin burns and eye damage
24			
25	B. Further information	on:	
26 27	Substance Y is a gra handling and use is		lid and is presumed to be non-volatile. Dust exposure during .
28	Specific extinguishin	ng media	a are not necessary.
29 30 31	statements are requ	ired sind	s is/are not urgently required. No specific disposal precautionary ce the substance is not intended to be used by the general l/professional users.
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33			
34			
35			
36			

#### 1 <u>C. Precautionary statements on the basis of the classification (see Annex I and IV to CLP)</u>

2 and according to the guidance:

Ox. Sol. 1	Skin Corr. 1A
<u>P210</u> <u>P220</u> P280 P283	<u>P260</u> P264 <u>P280</u>
<u>P306+P360</u> <b>P371+P380+P375</b> P370+P378	P301+P330+P331 P303+P361+P353 P363 P304+P340 P310 P321 P305+P351+P338
- P501	P405 P501

3

#### 4 D. Selection of highly recommended and recommended precautionary statements:

Where the same statement is assigned to different hazards, but with different priority, the
most conservative approach is taken (i.e. the highest priority must be taken into account).
Where appropriate, precautionary statements are combined into a single combination
statement. Duplication of individual phrases is avoided. The selection results in the following
set of P-statements:

10 11	<u>P210</u>	<u>Keep away from heat, hot surfaces, sparks, open</u> flames and other ignition sources. No smoking.
12 13	<u>P220</u>	<u>Keep away from clothing and other combustible</u> <u>materials</u>
14	<u>P260</u>	Do not breathe dust/fume/gas/mist/vapours/spray.
15 16	<u>P280</u>	Wear protective gloves/protective clothing/eye protection/ face protection.
17	<u>P301+P330+P331</u>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
18 19 20 21	<u>P303+P361+P353+310</u>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor/

Guidance on Labelling and Pack	aging
Draft PUBLIC version 3.0 January	<b>201</b> 7

<u>P30</u>	<u>5+P351+P338</u>		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<u>P37</u>	<u>1+P380+P375</u>		<u>In case of major fire and large quantities: Evacuate</u> area. Fight fire remotely due to the risk of explosion.
<u>E. R</u>	<u>esult:</u>		
preo star	cautionary stat ting set of pote	ements entially	guidance results in eight, mostly combined, s. A substantial reduction is achieved compared to the applicable statements for the CLP hazard label, f the underlying hazards.
need	ls to be prepared	d, they	statements must be placed on the CLP hazard label. As an SDS would also have to be included in the SDS, under heading 2.2 <i>Guidance on the compilation of safety data sheets</i> .
prov			can be introduced under the relevant headings of the SDS to fessional user with sufficient information to handle the
	mple C. Subst ssifications	tance	Z assigned physical, health and environmental
<u>A. C</u>	lassification and	hazard	statements:
Pyr.	Liq. 1	H250	Catches fire spontaneously if exposed to air
Wat	er-react. 1		n contact with water releases flammable gases which may ignite neously
Skin	Corr. 1B	H314	Causes severe skin burns and eye damage
Aqu	atic Acute 1	H400	Very toxic to aquatic life
Aqu	atic Chronic 1	H410	Very toxic to aquatic life with long lasting effects
<u>B. F</u>	urther informatio	<u>n:</u>	
Sub: inha	stance Z should I	be rega xtinguis	rded as volatile. Therefore, there is possible exposure via shing media are necessary, because water will increase the risk hing of fire.

As the disposal of the packaging presents a hazard to human health or the environment,

specific disposal precautionary statements are required (although the substance is not intended to be used by the general public, but only by industrial/professional users). The 

- hazard statement H400 is omitted from the label to avoid duplication with H411.

## <u>C. Precautionary statements on the basis of the classification (see Annex I and IV to CLP)</u> and according to the guidance:

Pyr. Liq.1	Water-react. 1	Skin Corr. 1B	Aquatic Acute 1	Aquatic Chronic 1
P210 P222 P233 P280 P231+P232	P223 <b>P231+P232</b> <u>P280</u>	<u>P260</u> P264 <u>P280</u>	<u>P273</u>	<u>P273</u>
<u>P302+P334</u> <u>P370+P378</u>	<u>P302+P335+P334</u> <u>P370+P378</u>	P301+P330+P331 P303+P361+P353 P363 P304+P340 P310 P321 P305+P351+P338	<u>P391</u>	<u>P391</u>
-	P402+P404 P501	P405 <u>P501</u>	- <u>P501</u>	- <u>P501</u>

3

4 <u>D. Selection of highly recommended and recommended precautionary statements:</u>

Where the same statement is assigned to different hazards, but with different priority, the
most conservative approach is taken (i.e. the highest priority must be taken into account).
Where appropriate, precautionary statements are combined into a single combination

8 statement. Duplication of individual phrases is avoided.

9 P303+ P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated 10 clothing. Rinse skin with water [or shower]. 11 and 12 IF ON SKIN: Brush off loose particles from skin. Immerse in P302+P335+P334+P310 13 cool water<sup>47</sup>. Immediately call a POISON CENTER/doctor/...) 14 were merged into one single combination phrase: 15 16 P303+ P335+P334+P310+P361 where duplication of the message was avoided. 17 18

<sup>10</sup> 

<sup>&</sup>lt;sup>47</sup> The sub-phrase of P334 "or wrap in wet bandages" is not to be used for water-reactive substances and mixtures category 1 (Table 7.3.2.12 in sub-section 7.3 of this guidance).

1 The selection results in the following set of P-statements:

-		
2 3 4	<u>P210</u>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5 6	P260	<u>Do not breathe dust/fume/gas/mist/</u> vapours/spray.
7	<u>P273</u>	Avoid release to the environment.
8 9	<u>P280</u>	Wear protective gloves/protective clothing/eye protection/face protection.
10 11	<u>P231+P232</u>	<u>Handle and store under inert gas. Protect</u> <u>from moisture.</u>
12 13	<u>P301+P330+P331</u>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
14 15 16 17 18	<u>P303+ P335+P334+P310+P361</u>	IF ON SKIN (or hair): Brush off loose particles from skin. Immerse in cool water <sup>48</sup> . Immediately call a POISON <u>CENTER/doctor/ Take off immediately all</u> contaminated clothing.
19 20 21	<u>P305+P351+P338</u>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
22	<u>P370+P378</u>	In case of fire: Use to extinguish.
23	E Pocult	

23 <u>E. Result:</u>

Selection in line with the guidance results in nine, partly combined, precautionary
 statements.

26 A substantial reduction is achieved compared to the starting set of potentially

27 applicable statements for the CLP hazard label, assignable on the basis of the

28 underlying hazards. For example, P264 has not been selected, because P280 is

29 more relevant.

30 To further reduce the number of the P-statements and the amount of digestible

31 information on the label, the statements P391 and P501 have been put in the SDS,

32 as the prevention and response statements for the physical and health hazards

33 appear to contain the more urgent advice for the label.

34 The selected precautionary statements must be placed on the CLP hazard label. As an SDS

needs to be prepared, they would also have to be included in the SDS, under heading 2.2

36 ("Label elements"), see the *Guidance on the compilation of safety data sheets*. The de-

- 37 selected statements can be introduced under the relevant headings of the SDS to provide
- 38 the industrial or professional user with sufficient information to handle the substance safely.

<sup>&</sup>lt;sup>48</sup> The sub-phrase of P334 "or wrap in wet bandages" is not to be used for water-reactive substances and mixtures category 1 (Table 7.3.2.12 in sub-section 7.3 of this guidance).

	•

1	Example D. Mixture ABC for use by the general public	
2		
3	A. Classification and hazard s	tatements:
4		
5	Flam. Liq. 2	H225 Highly flammable liquid and vapour
6	Acute Tox. 4 (oral)	H302 Harmful if swallowed
7	Skin irrit. 2	H315 Causes skin irritation
8		
9	B. Further information:	
10 11 12	Mixture ABC is presumed to be volatile, but not so as to generate a potentially explosive atmosphere. Specific extinguishing media are not necessary. Specific treatment is not urgently required.	

- 13 There are no specific disposal requirements. The mixture is intended to be used by the 14 general public.
- 15

16 <u>C. Precautionary statements on the basis of the classification (see Annex I and IV to CLP)</u>

17 and according to the guidance:18

Flam. Liq. 2	Acute Tox. 4 (Oral)	Skin Irrit. 2
	<u>P101, P102</u>	
<u>P210</u>	<u>P264</u>	P264
<u>P233</u>	<u>P270</u>	<u>P280</u>
P240		
P241		
P242		
P243		
P280		
P303 + P361 + P353	P301+P312	P302+P352
P370 + P378	P330	P321
		P332+P313
		P362+P364
P403 + P235	-	-
P501	P501	-

#### 1 D. Selection of highly recommended and recommended precautionary statements:

2 Where the same statement is assigned to different hazards, but with different priority, the

3 most conservative approach is taken. Where appropriate, precautionary statements are

4 combined into a single combination statement. Duplication of individual phrases is avoided.

5 The selection results in the following set of P-statements:

#### 6 **P101** If medical advice is needed, have product container or label at hand.

- 7 P102 Keep out of reach of children.
- 8 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 10 P233 Keep container tightly closed.
- 11 P264 Wash ... thoroughly after handling.
- 12 <u>P280</u> <u>Wear protective gloves</u>.
- 13 P501 Dispose of contents/container to ...
- 14
- 15 <u>E. Result:</u>

#### 16 $\,$ Selection in line with the guidance results in seven precautionary statements. A

substantial reduction is achieved compared to the starting set of potentially

applicable statements for the CLP hazard label, assignable on the basis of the
 underlying hazards.

The selected precautionary statements must be placed on the CLP hazard label. As an SDS needs to be prepared, they would also have to be included in the SDS, under heading 2.2 ("Label elements"), see the *Guidance on the compilation of safety data sheets*.

23 The de-selected statements can be introduced under the relevant headings of the SDS to

24 provide the industrial or professional user with sufficient information to handle the 25 substance safely.

- 23 Su
- 26
- 27

## **Appendix: Glossary of selected terms used in this guidance**

2		
3 4 5 6 7	ADR	the European Agreement concerning the International Carriage of Dangerous Goods by Road (concluded in Geneva on 30 September 1957) that has been implemented within the EU through Directive 2008/68/EC;
8 9 10 11 12	Acute toxicity	those adverse effects occurring following oral or dermal administration of a single dose of a substance or a mixture, or multiple doses given within 24 hours, or an inhalation exposure of 4 hours;
13 14 15	Acute aquatic toxicity	the intrinsic property of a substance to be injurious to an organism in a short term exposure to that substance;
16 17 18 19 20 21 22 23 24	Aerosols	this means aerosol dispensers, are any non- refillable receptacles made of metal, glass or plastics and containing a gas compressed, liquefied or dissolved under pressure, with or without a liquid, paste or powder, and fitted with a release device allowing the contents to be ejected as solid or liquid particles in suspension in a gas, as a foam, paste or powder or in a liquid state or in a gaseous state;
25 26 27 28 29 30	Alloy	a metallic material, homogeneous on a macroscopic scale, consisting of two or more elements so combined that they cannot be readily separated by mechanical means; alloys are considered to be mixtures for the purposes of CLP;
31 32 33 34	Article	an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition;
35 36 37 38	Aspiration	the entry of a liquid or solid substance or mixture directly through the oral or nasal cavity, or indirectly from vomiting, into the trachea and lower respiratory system;
39 40 41 42 43	BPR	Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products (Biocidal Products Regulation);

1 2	Carcinogen	a substance or a mixture of substances which induces cancer or increases its incidence;
3	CAS	Chemical Abstract Service;
4 5	Chemically unstable gas	a flammable gas that is able to react explosively even in the absence of air or oxygen;
6 7 8 9	Chronic aquatic toxicity	the intrinsic property of a substance to cause adverse effects to aquatic organisms during exposures which are determined in relation to the life-cycle of the organism;
10 11 12	CLP or CLP Regulation	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures;
13 14	CMR	a substance or mixture which is carcinogenic, mutagenic or toxic to reproduction;
15 16 17	Competent authority (CA)	the authority or authorities or bodies established by the member states to carry out the obligations arising from the CLP Regulation;
18 19 20	Corrosive to metals	a substance or a mixture which by chemical action will materially damage, or even destroy metals;
21	CRC	child-resistant closure;
22	CRF	child-resistant fastening;
23 24 25 26	Distributor	any natural or legal person established within the Community, including a retailer, who only stores and places on the market a substance, on its own or in a mixture, for third parties;
27 28 29 30 31 32 33 34 35	Downstream user	any natural or legal person established within the Community, other than the manufacturer or the importer, who uses a substance, either on its own or in a mixture, in the course of his industrial or professional activities. A distributor or a consumer is not a downstream user. A re- importer, exempted pursuant to Article 2(7)(c) REACH Regulation, shall be regarded as a downstream user;
36	DPD	Dangerous Preparations Directive (1999/45/EC);
37	DSD	Dangerous Substances Directive (67/548/EEC);
38 39	ECHA	European Chemicals Agency or "the Agency," established under the REACH Regulation;
40	EU	European Union;
41 42	Explosive article	an article containing one or more explosive substances or mixtures;

1 2 3 4 5 6 7	Explosive substance or mixtures	a solid or liquid substance or mixture of substances which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic substances are included even when they do not evolve gases;
8 9 10 11	Eye irritation	the production of changes in the eye following the application of test substance to the anterior surface of the eye, which are fully reversible within 21 days of application;
12 13 14	Flammable gas	a gas or gas mixture having a flammable range with air at 20 °C and a standard pressure of 101.3 kPa;
15 16	Flammable liquid	a liquid having a flash point of not more than 60°C;
17 18 19 20	Flash point	the lowest temperature (corrected to a standard pressure of 101.3 kPa) at which the application of an ignition source causes the vapours of a liquid to ignite under specified test conditions;
21 22	Flammable solid	a solid which is readily combustible, or may cause or contribute to fire through friction.
23 24 25 26 27		Readily combustible solids are powdered, granular, or pasty substances or mixtures which are dangerous if they can be easily ignited by brief contact with an ignition source, such as a burning match, and if the flame spreads rapidly;
28 29 30	GHS	Globally Harmonised System of Classification and Labelling of Chemicals developed within the United Nations (UN) structure;
31 32	Hazard category	the division of criteria within each hazard class, specifying hazard severity;
33 34	Hazard class	the nature of the physical, health or environmental hazard;
35 36 37 38 39	Hazard pictogram	graphical composition that includes a symbol plus other graphic elements, such as a border, background pattern or colour that is intended to convey specific information about the hazard concerned;
40 41 42 43	Hazard statement	a phrase assigned to a hazard class and category that describes the nature of the hazards of a hazardous substance or mixture, including, where appropriate, the degree of hazard;

1 2 3 4	Hazardous	means fulfilling the criteria relating to physical hazards, health hazards or environmental hazards, laid down in parts 2 to 5 of Annex I of CLP;
5 6	IMDG Code	International Maritime Dangerous Goods Code for the transport of dangerous goods by sea;
7 8	Import	the physical introduction into the customs territory of the Community;
9 10	Importer	any natural or legal person established within the Community who is responsible for import;
11 12	INCI	International Nomenclature of Cosmetic Ingredients;
13 14	Intermediate packaging	packaging placed between inner packaging, or articles, and outer packaging;
15 16	IUCLID	International Uniform Chemical Information Database;
17 18	IUPAC	International Union of Pure and Applied Chemistry;
19 20 21 22 23 24 25 26 27	Label	an appropriate group of written, printed or graphic information elements concerning a hazardous substances or mixture, selected as relevant to the target sector (s), that is affixed to, printed on, or attached to the immediate container of a hazardous substance or mixture, or to the outside packaging of a hazardous substances or mixture (definition follows Chapter 1.2 of the UN GHS);
28 29 30	Label element	one type of information that has been harmonised for use in a label, e.g. hazard pictogram, signal word;
31 32 33	Manufacturer	any natural or legal person established within the Community who manufactures a substance within the Community;
34 35	Manufacturing	production or extraction of substances in the natural state;
36 37 38 39	Mixture	means a mixture or solution composed of two or more substances. The UN GHS Chapter 1.2 includes the phrase, "in which they do not react" at the end of an otherwise identical definition;
40 41 42	Mutagen	an agent giving rise to an increased occurrence of mutations in populations of cells and /or organisms;

1 2 3 4 5 6 7 8 9 10 11 12	Organic peroxides	liquid or solid organic substances which contain the bivalent -O-O- structure and may be considered derivatives of hydrogen peroxide, where one or both of the hydrogen atoms have been replaced by organic radicals. The term organic peroxide includes organic peroxide mixtures (formulations) containing at least one organic peroxide Organic peroxides are thermally unstable substances or mixtures, which can undergo exothermic self-accelerating decomposition. In addition, they can have one or more of the following properties:
13		(i) be liable to explosive decomposition;
14		(ii) burn rapidly;
15		(iii) be sensitive to impact or friction;
16		(iv) react dangerously with other substances;
17 18 19 20	Oxidising gas	any gas or gas mixture which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does;
21 22 23 24	Oxidising liquid	a liquid substance or mixture which, while in itself not necessarily combustible, may, generally by yielding oxygen, cause, or contribute to, the combustion of other material;
25 26 27 28	Oxidising solid	a solid substance or mixture which, while in itself not necessarily combustible, may, generally by yielding oxygen, cause, or contribute to, the combustion of other material;
29 30	Package	the complete product of the packing operation, consisting of the packaging and its contents;
31 32 33 34	Packaging	one or more receptacles and any other components or materials necessary for the receptacles to perform their containment and other safety functions;
35 36 37 38	Placing on the market	supplying or making available, whether in return for payment or free of charge, to a third party. Import shall be deemed to be placing on the market;
39 40 41 42 43	PPPR	Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC;

1 2 3 4	Precautionary statement	a phrase that describes recommended measure(s) to minimise or prevent adverse effects resulting from exposure to a hazardous substance or mixture due to its use or disposal;
5 6	Product identifier	details permitting the identification of the substance or mixture;
7 8 9	Pyrophoric liquid	a liquid substance or mixture which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
10 11 12	Pyrophoric solid	a solid substance or mixture which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
13 14	Pyrotechnic article	an article containing one or more pyrotechnic substances or mixtures;
15 16 17 18 19	Pyrotechnic substance or mixture	a substance or mixture of substances designed to produce an effect by heat, light, sound, gas or smoke or a combination of these as the result of non-detonative self-sustaining exothermic chemical reactions;
20 21 22	<b>REACH or REACH Regulation</b>	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
23 24 25 26	Registrant	the manufacturer or the importer of a substance or the producer or importer of an article submitting a registration for a substance under the REACH Regulation;
27 28 29 30	Reproductive toxicity	includes adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring and effects on or via lactation;
31 32 33	Respiratory sensitiser	a substance that will lead to hypersensitivity of the airways following inhalation of the substance;
34	SDS	safety data sheet;
35 36 37 38 39 40 41	Self-heating substance or mixture	a liquid or solid substance or mixture, other than a pyrophoric liquid or solid, which, by reaction with air and without energy supply, is liable to self-heat; this substance or mixture differs from a pyrophoric liquid or solid in that it will ignite only when in large amounts (kilograms) and after long periods of time (hours or days);
42 43		
43		

1 2 3 4 5 6	Self-reactive substances or mixtures	thermally unstable liquid or solid substances or mixtures liable to undergo a strongly exothermic decomposition even without participation of oxygen (air). This definition excludes substances and mixtures classified according to CLP as explosives, organic peroxides or as oxidising;
7 8 9 10 11	Serious eye damage	the production of tissue damage in the eye, or serious physical decay of vision, following application of a test substance to the anterior surface of the eye, which is not fully reversible within 21 days of application;
12 13 14 15	Signal word	a word that indicates the relative level of severity of hazards to alert the potential reader of the hazard; the following two levels are distinguished:
16 17		<ul> <li>a) Danger means a signal word indicating the more severe hazard categories; and</li> </ul>
18 19		<ul> <li>b) Warning means a signal word indicating the less severe hazard categories;</li> </ul>
20 21 22 23	Skin corrosion	the production of irreversible damage to the skin, namely visible necrosis through the epidermis and into the dermis, following the application of a test substance up to 4 hours;
24 25 26	Skin irritation	the production of reversible damage to the skin following the application of a test substance for up to 4 hours;
27 28	Skin sensitiser	a substance that will lead to an allergic response following skin contact;
29 30	Specific target organ toxicity	specific target organ toxicity, cf. STOT, STOT-SE and STOT-RE;
31 32 33	STOT-SE	specific, non lethal target organ toxicity arising from a single exposure to a substance or mixture;
34 35	STOT-RE	specific, target organ toxicity arising from a repeated exposure to a substance or mixture;
36 37 38 39 40 41 42 43 44	Substance	a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any identified impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition;

1 2 3	Supplier	any manufacturer, importer, downstream user or distributor placing on the market a substance, on its own or in a mixture, or a mixture;
4 5	Trade name	a designation under which a substance or mixture is placed on the market;
6	TWD	tactile warnings of danger;
7	UN	United Nations;
8 9 10 11 12	UN GHS	Globally Harmonised System of Classification and Labelling of Chemicals - the international criteria agreed by the United Nation Economic and Social Council (UN ECOSOC) for the classification and labelling of hazardous substances and mixtures;
13 14	UN RTDG	the United Nations Recommendations on the Transport of Dangerous Goods;
	Unstable explosive	an explosive substance or mixture which is thermally unstable and/or too sensitive for normal handling, transport and use;
15 16 17 18 19	Use	any processing, formulation, consumption, storage, keeping, treatment, filling into containers, transfer from one container to another, mixing, production of an article or any other utilisation

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