

#### Welcome

Webinar: Completeness checks of chemical safety reports: practical advice

16 November 2021

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### What you can expect from today

- Learn about the completeness check of chemical safety reports
- Learn how to avoid common reasons for incompleteness
- Get practical advice from experience gained so far
- Get answers to your questions





### Questions

- Join Q&A at: slido.com
   Event code: # csrtcc
- Send questions from
   **11:00 to 13:00** (EET, GMT +2)
- Only questions within scope
- Question not answered?
   Contact us: <u>echa.europa.eu/contact</u>





### **Material available**

- Video recording, presentations and Q&A: <u>echa.europa.eu/webinars</u>
- Watch our previous webinar on completeness check: <u>echa.europa.eu/-</u>

/revised-completenesscheck-what-changesand-how-you-can-

<u>prepare</u>



#### Webinars

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11:00 **Introduction** Alicia Lopez Tarraga, ECHA



- 11:05 **Completeness check of chemical safety reports** Valerio Ceccolini, ECHA
- 11:15 **Most common issues related to reporting of hazards and uses** Soile Niemi, ECHA
- 11:30 **Most common issues related to the chemical safety report file** Mila Marinovic, ECHA
- 11:45 Most common issues related to reporting and assessing article service life Eleni Tsitsiou, ECHA
- 11:55 **Concluding remarks** Alicia Lopez Tarraga, ECHA
- 11:00 13:00 Webinar open for questions



### Completeness check of chemical safety reports

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16 November 2021

Valerio CECCOLINI European Chemicals Agency







### Background

- Chemical safety report needed when registering a hazardous substance
  - Basis for informing customers about hazards and required risk management
  - Used by authorities to source information about uses and their exposure potential to determine need for regulatory action
- As of 1 March 2021, manual completeness check also covers chemical safety report
- Completeness check:
  - Ensures registration dossier has all required elements
  - Applies to all dossiers



### **Chemical safety report** When is it checked?



 Substances subject to registration under the REACH Regulation (Article 10) manufactured or imported > 10 tonnes/year

#### AND

 (Self)classified as hazardous or reported as fulfilling PBT/vPvB criteria (REACH Article 14(4))



### **Chemical safety report** What should it contain?



- Each use reported in IUCLID section 3.5 must be addressed in a corresponding exposure scenario in the chemical safety report
- Each contributing activity reported within a use must have a corresponding contributing scenario in the related exposure scenario

If the above elements are not present, a relevant justification must be given in the relevant section of the chemical safety report file.



### **Chemical safety report** What should it contain?



### Required elements for environmental contributing scenarios

- Conditions of use (operational conditions and risk management)
- Local release factors for water, air and soil
- Exposure estimates and risk characterisation ratios
  - For all environmental compartments for which a PNEC has been derived
  - For indirect exposure of general population via inhalation of ambient air and via oral route (food, drinking water)
    - Combined risk via oral and inhalation route





### **Chemical safety report** What should it contain?

## Required elements for worker/consumer contributing scenarios

- Conditions of use (operational conditions and risk management)
- Exposure estimates and risk characterisation ratios
  - For each route of exposure where a DNEL, DMEL or other toxicological threshold reported
    - Combined risk via oral, dermal and inhalation route



### **Chemical safety report checks**

#### First six months of operation

- **1 160** checked
  - 776 found complete (67%)
  - 384 found incomplete (33%)
- **47** rejected after failing second technical completeness check





## Chemical safety report checks

#### **Most common issues**

- Missing contributing scenarios without a justification (most often contributing activities in section 3.5.3)
- Missing exposure scenarios without a justification (most often uses in section 3.5.6)
- No section 9 (no exposure scenarios at all) with and without a justification
- Several uses from different life cycle stages (different 3.5.x sections) covered by one exposure scenario
- Incorrect/unclear chemical safety report structure





### **Coming up**

- Most common issues when reporting hazards and uses in IUCLID
- How to improve use descriptions
- How to include a chemical safety report file in the dossier
- How to justify absence of a chemical safety report
- How to structure a chemical safety report
- How to report and assess article service life





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Most common issues related to reporting of hazards and uses

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### **Hazard information**







### Hazard information drives the need and scope of exposure assessment

- Chemical safety report must contain exposure assessment and risk characterisation if the substance is classified as hazardous or assessed to be a PBT or vPvB, in accordance with REACH Article 14(4)
- Scope of assessment defined by toxicological and ecotoxicological hazard assessment conclusions
- Release / exposure estimates need to be provided if PNECs or DNELs/DMELs derived for the substance



### **PNECs and environmental assessment**

- If PNEC is derived for a given protection target, exposure estimation and risk characterisation must be provided for the related compartment
- Justifications referring to "no environmental hazard" or "no environmental classification" are not valid if PNECs are reported for the substance
- If no effect has been observed at limit dose, you may conclude that no hazard has been identified and not report a PNEC





### **DNELs and human health assessment**

- If DNEL/DMEL is derived for a given exposure route, exposure estimation and risk characterisation must be provided for the related route
- Justifications referring to "no human health hazard" or "no human health classification" are **not valid** if DNEL/DMELs are reported for the substance
- If no effect has been observed at limit dose, you may conclude that no hazard has been identified and not report a DNEL/DMEL
- DNEL/DMELs for workers and general population should be consistent with each other





### Humans via environment assessment

- Humans exposed via environment must be assessed when general population DNELs for long-term exposure via inhalation or oral intake have been determined and:
  - Tonnage is above 1000 tpa or,
  - Tonnage is above 100 tpa and substance classified as STOT RE 1, carcinogen, mutagen (any category), or toxic to reproduction (categories 1A or 1B)
- Assessment is provided in contributing scenarios for the environment
- Justifications referring to "no hazard" or "no classification" are **not valid** if the abovementioned conditions are met





# Substances with several hazard profiles

- If your registration covers different compositions with different hazard profiles, link them with the relevant classification and use records
- If no indication of links between compositions, classifications and uses, we assume composition with highest hazard applied in all uses







### Changes in classification and labelling and hazard information

- If new hazard information becomes available and changes classification and/or PNECs and DNELs, you must update your exposure assessment accordingly
- Members who provide their own chemical safety report must also be aware of the hazard changes impacting their report

### How to improve use description







### **Purpose of use information**

- Pre-requisite for chemical safety assessment and subsequent communication on the conditions of safe use down the supply chain
- Enables authorities to understand the use pattern and exposure potential of the substance
  - Influences high/low priority for regulatory action
- Enables the public to have indications on products or articles where substance can be present





# All identified uses must be reported

- Registrants must provide a brief description of their own uses and of the uses in their supply chain in the EU that they are aware of
  - Explore market knowledge existing in your company
- Once identified, use maps developed under CSR/ES roadmap can be helpful <u>echa.europa.eu/csr-es-roadmap/use-maps</u>





### **Common misunderstandings**

- Products in widespread professional use may be used for similar purpose at industrial sites:
  - May not be necessary to report and additionally assess as use at industrial sites – Reporting in section 3.5.4/3.5.5 would be adequate
  - Examples: General purpose room and equipment cleaners
- Transfer activities, i.e., loading-unloading; chargingdischarging ("distribution"):
  - Such activities are part of many uses and may therefore take place at different lifecycle stages under variable conditions
  - Should be integrated into the various uses rather than defining a stand-alone use ("Distribution") for them





# Naming of uses and contributing activities

- Clear, concise and unique names for uses and contributing activities that enable quick identification
- Give a name for each of contributing activity
- Avoid copying descriptor definition as the name of the contributing activity
- Unclear naming may lead to a completeness check failure if link between each use/contributing activity and the corresponding exposure/contributing scenario is not clear





### **Environmental release** categories (ERCs)

- Select environmental release categories (ERCs) that are relevant for the use
- Using an irrelevant category leads to an automated completeness check failure as of 1 November 2021 (visible in the validation assistant of IUCLID 6.6)
- Only ERCs relevant for a given life cycle stage are available for selection in IUCLID section 3.5 since 2016
- Example: Only ERC 1 is relevant for manufacturing





### **Contributing activities with multiple use descriptors**

- In some cases you may want to link several use descriptors to a single contributing activity, for example, when:
  - Measured exposure dataset covers various contributing activities for workers, or
  - Release factor of one ERC may cover release factors of another ERC (e.g. indoor – outdoor)
- Use descriptors per activity must be compatible with each other
- Validation assistant in IUCLID 6.6 will trigger a quality warning if incompatible ERCs are reported within the same contributing activity/use



# Uses exempted from exposure assessment

### Intermediate uses under strictly controlled conditions

 Art 17/18 uses must be indicated in the 'Registration/Notification status for the use' field in the use record in IUCLID



#### **Other (partially) exempted uses**

 If you report (partially) exempted uses from the exposure assessment, justify the absence of the assessment in the chemical safety report at the place where the exposure scenario would have been expected



### Lead dossiers with own and joint uses

- If a lead registrant provides a joint chemical safety report, they must report the uses covered by the report in the IUCLID dossier and, if applicable, additional own uses (onsite or downstream)
- Use 'Related assessment' field in each use record to indicate if use is:
  - Assessed in its own chemical safety report
  - Assessed in a joint chemical safety report
  - Assessed in a joint chemical safety report but not lead's own use







### **Changes in use description**

- When you change the use description, also update the chemical safety report
- And visa versa: When updating your chemical safety report, ensure use description in IUCLID stays aligned
- Using a tool such as Chesar, helps consistency between uses in IUCLID and the assessment in the chemical safety report



 Clear use description is a pre-requisite for passing completeness check



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### Most common issues related to the chemical safety report file Webinar: Completeness checks of

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## How to provide a chemical safety report file in the dossier?





# **Chemical safety report must be provided in Section 13.1**

- Field: "Chemical safety report"
- Other important fields:
  - "Type of CSR"
  - "CSR contains"
  - "Chemical safety assessment/report tool used"
  - "Further information on the CSR attached / remarks"

4 Physical and chemical properties       18         5 Environmental fate and pathways       20         6 Ecotoxicological information       17         7 Toxicological information       24         8 Analytical methods       +         11 Guidance on safe use       +         12 Literature search       +         13 Assessment reports       1         13.1 Chemical Safety Report (CSR)       1         • CSR_report_full_20211027_161525.pdf       •	3 Manufacture, use and exposure	15	
5 Environmental fate and pathways 20 + 6 Ecotoxicological information 17 + 7 Toxicological information 24 + 8 Analytical methods + 11 Guidance on safe use + 12 Literature search + 13 Assessment reports 1 13.1 Chemical Safety Report (CSR) 1 + CSR_report_full_20211027_161525.pdf	4 Physical and chemical properties	18 +	
6 Ecotoxicological information 17 + 7 Toxicological information 24 + 8 Analytical methods + 11 Guidance on safe use + 12 Literature search + 13 Assessment reports 1 13.1 Chemical Safety Report (CSR) 1 + • CSR_report_full_20211027_161525.pdf	5 Environmental fate and pathways (	20 +	
7 Toxicological information 24 + 3 Analytical methods 11 Guidance on safe use 12 Literature search 13 Assessment reports 13.1 Chemical Safety Report (CSR) CSR_report_full_20211027_161525.pdf	6 Ecotoxicological information	17 +	
Analytical methods + I Guidance on safe use + I Literature search + I Assessment reports 1 I .1 Chemical Safety Report (CSR) 1 + CSR_report_full_20211027_161525.pdf 1	7 Toxicological information	24 +	
11 Guidance on safe use       +         12 Literature search       +         13 Assessment reports       1         13.1 Chemical Safety Report (CSR)       1 +         • CSR_report_full_20211027_161525.pdf 1	3 Analytical methods	+	
12 Literature search       +         13 Assessment reports       1         13.1 Chemical Safety Report (CSR)       1 +         • CSR_report_full_20211027_161525.pdf 1	11 Guidance on safe use	+	
13 Assessment reports 13.1 Chemical Safety Report (CSR) CSR_report_full_20211027_161525.pdf	12 Literature search	+	
13.1 Chemical Safety Report (CSR)	13 Assessment reports	0	
CSR_report_full_20211027_161525.pdf 🗑	13.1 Chemical Safety Report (CSR)	0+	
	CSR_report_full_20211027_16152	5.pdf 🗑	

Chemical Safety Report (CSR)			
Type of CSR Own CSR (own uses)			
<ul> <li>CSR contains</li> <li>✓ Part A</li> <li>✓ Part B section 1 to 8</li> <li>✓ Part B section 9 and 10</li> </ul>			
Chemical safety assessment/report tool used Chesar			
Chemical safety report (CSR) CSR_report_full_20211027_161525.pdf			
Further information on the CSR attached / remarks The latest version of CSR dated October 2021			
Export file (safety assessment / exposure estimation tool) Substance_20211027_161527.chr3			
Further information on the attached export file / remarks			



### **Several chemical safety report files in Section 13.1**

- Each chemical safety report requires a separate record under Section 13.1
- "Further information on the CSR attached / remarks" to indicate which file covers what



- Only the latest version will be checked unless a clear reference to other files is made
- **Advice**: delete obsolete versions

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## How to justify the absence of a chemical safety report?



### Who provides a chemical safety report in a joint submission?

- Always needed if registration tonnage band is above 10 tonnes per year
- If lead registrant provides on behalf of members, members need to select the relevant checkbox in dossier header
- If lead does **not** provide on behalf of members, every registrant must provide a chemical safety report in their own dossier





### No chemical safety report based on Article 14(2)

#### Substance in imported mixture

- Statement that the substance is imported in a mixture
- Concentration of the substance in the mixture
- Applicable concentration threshold for the substance as indicated in Art 14(2) (depending on hazard profile)
- Justification needs to be provided in the "*Discussion"* field in Section 13.1



## How to structure a chemical safety report?





### **Chemical safety record structure**

- CSR (Sections 9 and 10) must be structured according to exposure scenarios
- Each exposure scenario must contain both, assessment related to the environment and to human health (worker or consumer)
- Exposure scenario titles must be consistent with the use names reported in IUCLID Section 3.5

IUCLID	CSR		
		9.1. Exposure scenario 1: Manufacture - Manufacture o	f Substance
<ul> <li>Image: A set of the set of the</li></ul>	3.5.1 Manufacture	Environment contributing scenario(s):	
	Manufacture of substance	Manufacture of Substance	ERC 1
		Worker contributing scenario(s):	
		Use in closed process, no likelihood of exposure	PROC 1
		Use in closed, continuous process with occasional controlled exposure	PROC 2



### **Use – Exposure scenario**

- Each use should have its own exposure scenario in the chemical safety report
- Exposure scenario title must clearly correspond to the use name (if ECHA cannot establish the correspondence, chemical safety report fails)



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# **Contributing activity – Contributing scenario**

- Each contributing activity reported in IUCLID must have a corresponding contributing scenario in the chemical safety report
  - Environment: Environmental release category (ERC)
  - Workers: Process category (PROC)
  - Consumers: Article category (AC) or Product category (PC)
- Contributing scenario title must clearly refer to the contributing activity (ERC/PROC/AC/PC) reported in IUCLID (if ECHA cannot establish the correspondence, CSR fails)



### **Chemical safety report structure**



#### CSR

#### 9.2. Exposure scenario 2: Formulation or re-packing -Formulation of liquid mixtures

Environmen	t contributing scenario(s):	
CS 1	Formulation of mixture in closed and open systems	ERC 2
Worker cont	ributing scenario(s):	
CS 2	Receiving and charging of the substance	PROC 8b



### How to export uses from Chesar

- If you use Chesar, you can synchronise the use descriptions in the chemical safety report (generated by Chesar) and in Section 3.5 of IUCLID with each other
- Suggested workflow: describe your uses in Chesar, and once your assessment is finished, export them to IUCLID (select "Remove all existing uses" in Box 4 of Chesar) before generating your CSR

**After, if necessary**: add uses not to be assessed (e.g. intermediates under strictly control conditions) in IUCLID Section 3.5

 For chemical safety report update: Chesar has different options to support the update of the use descriptions in IUCLID. More information is available in the help-text
 embedded in Chesar (Box 4)



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#### Most common issues related to reporting and assessing article service life

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Eleni TSITSIOU European Chemicals Agency







### When to report article service life?

- **REACH:** all life-cycle stages of a substance to be addressed in registration dossier incl. stages subsequent to use of the substance as such or in a mixture
- When a substance is expected to be present in articles, one or more service life uses are to be created in IUCLID section 3.5.6
- Examples:
  - Dyes in textile articles
  - Plasticiser in articles made from soft-plastic material
  - Flame-retardants in plastic articles
  - Pigment in dried coating after application in/on the article





### **Reporting a service life use**

- Environmental contributing activities (CAs) should contain Environmental Release Categories (ERCs) leading to a clear use type definition
  - Reported use should cover either industrial sites (ERC 12a/b/c) or use of articles by professional workers or consumers (ERC 10a/b, 11a/b)
  - If both use types are to be described, create a use record in IUCLID section 3.5.6 for each use-type
- Inconsistencies trigger quality warnings in IUCLID
   6.6 validation assistant





### **Reporting example**

~	3.5.6 Service life 2 +	None None Processing of used tyres (industrial site)	
	Processing of used tyres (industrial site)	UUID: 61511ac6-f478-4341-a0fc-2f540ca50d84 None	
		Article used by ✓ workers	
		Article category (AC) None	
		Substance intended to be released from article None	
		Contributing activity / technique for the environment + New item	
		1 Name of activity / technique Low dust processes with no water contact Environmental release category (ERC)	
		ERC12a: Processing of articles at industrial sites with low release	
		2 Name of activity / technique Handling with no promotion of releases	
		<ul> <li>Environmental release category (ERC)</li> <li>ERC11a: Widespread use of articles with low release (indoor)</li> </ul>	



#### **Reporting example**







### **Reporting a service life use (2)**

- Human health contributing activities (CAs) should be consistent with "Article used by" option
  - If article used by workers, only worker CAs can be reported
  - If article used by consumers, only consumer CAs can be reported
- If uses described before 2016, review your CAs and remove any inconsistencies that trigger quality warnings in IUCLID 6.6 validation assistant



Artic ✓ wor	e used by kers
Artic	<b>e category (AC)</b> 7: Metal articles
Subs yes	tance intended to be released from article





### **Reporting example**

3.5.6 Service life	None None Handling of tyres and other rubber articles
<ul> <li>Handling of tyres and model</li> <li>other rubber articles</li> </ul>	UUID: e928a57b-e795-40e2-88b1-482902cd3596
	Article used by
	Article category (AC) None
	Substance intended to be released from article None
	Contributing activity / technique for consumers + New item the Import file
	<ul> <li>Name of activity / technique Handling tyres</li> <li>Article category</li> <li>AC10g: Other rubber articles</li> </ul>
	Percentage (w/w) of substance in mixture /article (%) None
	Details on the percentage of substance in mixture/article None
	Contributing activity / technique for workers + New item the Import file
	1 Name of activity / technique Handling of rubber articles no energy applied
	<ul> <li>Process category (PROC)</li> <li>✓ PROC 21: Low energy manipulation of substances bound in materials and/or articles</li> </ul>





### **Reporting example**







### **Assessing service life use**

- Claiming no/negligible release is **not** a valid argument to justify absence of assessment
- If no "reasonably quantifiable" release is expected for some routes in a contributing scenario:
  - Describe relevant conditions of use; examples:
    - No water contact: material not to be used outdoors or in pipes and no cleaning with water is foreseen
    - No dermal contact: substance embedded in internal parts of the article
    - No oral contact: mouthing of the material or food contact by consumers not foreseen
  - Set relevant release estimates to 0





# When assessment may not be needed

- A. Substance is contained in concentration in the article material **below the cut-off values** as laid down in Regulation 1272/2008 (CLP) in relation to the mixture classification (using by analogy Article 14(2) of REACH, as a benchmark)
- B. Substance reacts on use, and hence is not available for exposure anymore during service life, and the reaction product is not hazardous

In case situation A or B applies, the **corresponding contributing scenario** in the Chemical Safety Report (CSR) should contain the relevant **justification** 





### **A. Justification** Low concentration in article

Justification must include concentration of the substance in the article material

- If concentration is <0.1%, no further reasoning is expected (exceptions: specific concentration limits and Aquatic Acute 1/Aquatic Chronic 1)
- If concentration is >0.1%, give hazard categories and classes of your substance and corresponding cut-offs from CLP





### **B. Justification** Reaction on use

### Include the following elements in the **corresponding contributing scenario (CS)**

- To justify absence of assessment of your substance:
  - how the substance transforms (incl. reaction mechanism and transformation products)
  - Quantification of the remaining residual concentration of the substance in article
  - Concentration of the substance in article (as specified in the previous slide)
- to justify the absence of assessment for transformation products:
  - Explanation that the transformation products are not hazardous



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### Concluding remarks

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### **Take-home messages**

- Clear hazard profile and use description are a prerequisite for a complete chemical safety report
- Make sure uses in IUCLID and chemical safety report are synchonised and the chemical safety report covers each use and activity reported in the dossier
- Report and assess article service life if it is relevant for your substance
- Any changes in the dossier/chemical safety report will be subject to a new completeness check when you submit your updated dossier



### Support



- More on technical completeness check: <u>echa.europa.eu/technical-completeness-check</u>
- Contact us if you have questions on a completeness check failure: <u>echa.europa.eu/contact</u>



### **Q&A** panel

- Webinar open until 13:00 Helsinki time (EET, GMT+2) to answer questions
- If your question is not answered by the end of the webinar, send it via our contact form:

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