

Sector use maps: key features

Webinar: Getting meaningful
exposure scenarios: how sector
use maps help

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collaborative
efficient realistic
harmonised format
typical uses
use map
sector map
common language
standard phrases
agreed

conditions of use

Use map format and content



Use map format

A package of four templates:

- ✓ One template for use description
- ✓ Three templates for inputs to chemical safety assessment:



**Main use map element:
use description**



Use description

Further explained in *ECHA Guidance on CSA R.12*

Use identification and general description													Link activities to exposure assessment inputs					Additional information (optional)
Use code	Link to entry in previous use maps	Life Cycle Stage	Life Cycle Stage code	Use name	ESCom standard phrase code(s) for use name	Further description of use	Sectors of use (SU)	Product categories (PC)	Article categories (AC)	ES short title for communication	This use leads to subsequent service life	Reference to subsequent service life use and relevant substances (if Y in previous column)	Contributing activity (CA) type	CA name	ESCom standard phrase code(s) for CA name	CA descriptor	Exposure assessment input code for this CA	Generic composition by technical functions; maximum concentration per technical function; tonnage information; other
1	1a	2	2a	3	3a	4	5	6	7	8	9	9a	10	11	11a	12	13	14
sector_M_001_v1		Manufacture	M				NA	NA	NA		NA	NA	workers			from PROC List		
													workers			from PROC List		
													environment			from EPC List		
													environment			from EPC List		
sector_F_001_v1		Formulation or re-packing	F				NA		NA		NA	NA	workers			from PROC List		
													workers			from PROC List		
													environment			from EPC List		
													environment			from EPC List		
sector_IS_001_v1		Use at industrial sites	IS						NA				workers			from PROC List		
													workers			from PROC List		
													environment			from EPC List		
													environment			from EPC List		
sector_PW_001_v1		Widespread use by professional workers	PW						NA				workers			from PROC List		
													workers			from PROC List		
													environment			from EPC List		
													environment			from EPC List		
sector_C_001_v1		Consumer use	C				NA		NA				Consumers			from PC list		
													Consumers			from EPC List		
													environment			from EPC List		
													environment			from EPC List		
sector_SLw_001_v1		Service life - workers	SLw				NA	NA			NA	NA	workers			from PROC List		
													workers			from PROC List		
													environment			from EPC List		
													environment			from EPC List		
sector_SLc_001_v1		Service life - consumers	SLc				NA	NA			NA	NA	Consumers			from AC list		
													Consumers			from AC list		

Use identification
(grouped per life cycle stage)

Additional information
(optional)

Contributing activities
per use + link to exposure
assessment inputs

Example

<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid blue; padding: 5px; text-align: center;">Life cycle stage</div> <div style="border: 1px solid blue; padding: 5px; text-align: center;">References to ECom phrases</div> <div style="border: 1px solid blue; padding: 5px; text-align: center;">Market information</div> </div>									
Life Cycle Stage code	Use name	ECom standard phrase code(s) for use name	Further description of use	Sectors of use (SU)	Product categories (PC)	Artide categories (AC)	ES short title for communication	This use leads to subsequent service life (Y/N)	Reference to subsequent service life use and relevant substances (if Y in previous column)
PW	Professional use of general cleaning products	130602;111331	Regular cleaning of equipment. Manual spraying and wiping using long-handle tool.		PC35		Widespread use by professional workers; Washing and cleaning products (PC35)	no	n/a

Use name

Further description of use

Example

Link activities to exposure assessment inputs					Additional information (optional)
Contributing activity (CA) type	CA name	ESCom standard phrase code(s) for CA name	CA descriptor	Exposure assessment input code for this CA	Generic composition by technical functions; maximum concentration per technical function; tonnage information; other
Workers	Manual spraying	0163;1113	PROC11 - M	sector_SWED_11(i_I_III)v1	Maximum concentrations of substances in this product : - surfactant: 20% - Polymeric: 20% - Solvent: 15% - Base/acid: 20% - Builder: 24% - Hydrotope: 10% - Bleach: 10% - Perfumes: 2% - Other Additives: 2% Indicative volume of cleaning products marketed for professional use in the EU is
Workers	Wiping	013322459	PROC10 - F	sector_SWED_10(i_I_III)v1	
Environment	Indoor use - solvent-borne or water-borne products;	013322021	ERC8a - W	sector_SPERC_8a a1.v1	

References to ESCom phrases

References to exposure assessment inputs

Contributing activities

Use descriptor

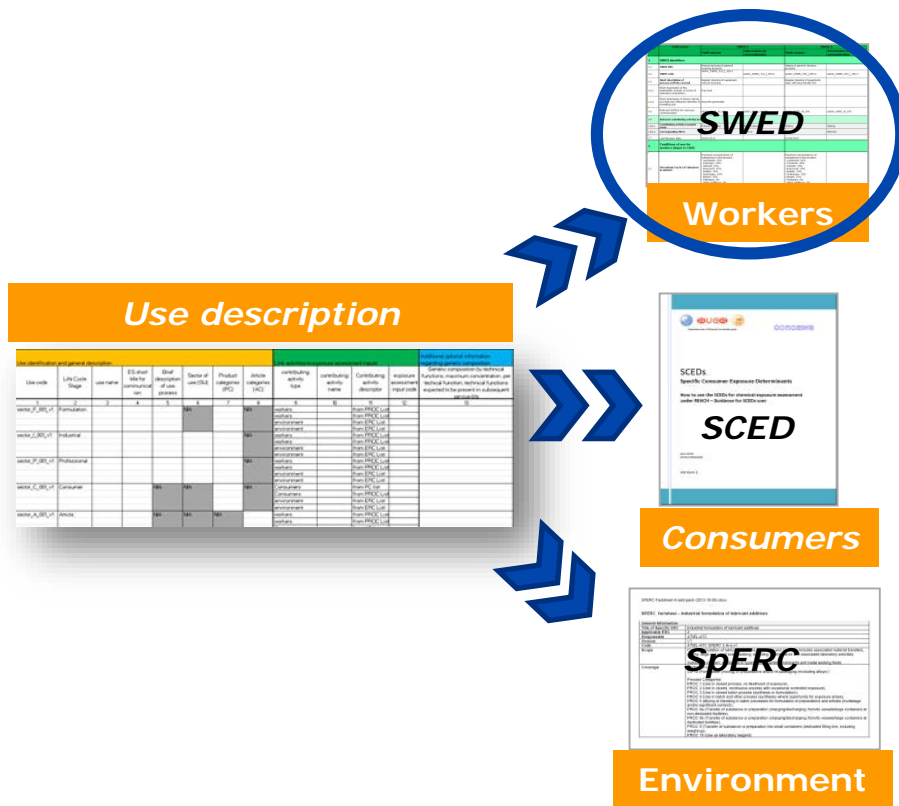
Additional information

Sector-specific worker exposure description (SWED)



What are SWEDs?

Sector-specific Worker Exposure Description



- Describes operational conditions and risk management measures for workers' activities
- Can be used by registrants as input to exposure assessment, and chemical safety report (fields aligned with IUCLID)
- Ensures assessments are realistic and relevant
- Includes suitable standard phrases that help registrant to communicate effectively with downstream user through exposure scenario
- Further explained in *ECHA Guidance on CSA R. 14*

SWED data structure

SWED TEMPLATE				
SWED Template v01; February 2016				
Row No.	Field name	Explanations/Help text	SWED 1	
			Field content	Information for communication
1	SWED identifiers	<i>Section 1 provides information on the scope of the SWED</i>		
1.1	SWED title*	<i>Title for the SWED indicating activities/products addressed</i>	Free text	
1.2	SWED code*	<i>Alphanumerical code assigned to the SWED. This is the same as column S in Use Map template. Format is <Sector>_SWED_<IS or PW> plus optional elements using harmonised abbreviations.</i>	Free text	Free text
2	Conditions of use for workers (input to CSA)	<i>Section 2 provides the core elements (in bold) which are usually required as input to generate exposure scenarios and estimates.</i>		
3	Description of other conditions of use, if relevant for specified exposure assessment tool	<i>Use it to provide additional conditions of use that are not included in Section 2, but are relevant input parameters for the assessment (such as distance from source, drop height, etc.).</i>		
3a.1	Description of the condition of use	<i>Describe any additional operational condition, technical or organisational measure, or personal protective equipment in place during the activity(ies) which has not been already described</i>	Free text	ESCom phrase code(s)
4	Rigorous containment	<i>Section 4 is relevant if the conditions of use correspond to rigorous containment. (This is from a human health perspective, for normal registrations, and does not refer to registration as intermediates.)</i>		
5	Measured data available	<i>Section 5 is relevant if measured data is available to support the registrant's assessment</i>		
6	Additional good practice advice	<i>Section 6 is relevant if you want to provide advice to reduce the exposure but where obligations according to Article 37(4) of REACH are not expected to apply</i>		

SWED - Example

Guide to fill
in the
template

Input for
assessment

To be
included in
extended
safety data
sheet

Part 1
Scope

SWED TEMPLATE				
SWED Template v01; February 2016				
Row No.	Field name	Explanations/Help text	SWED 1	
			Field content	Information for communication
	SWED identifiers	Section 1 provides information on the scope of the SWED		
1.1	SWED title*	Title for the SWED indicating activities/products addressed	[Blue]	
1.2	SWED code*	Alphanumerical code assigned to the SWED. This is the same as column S in Use Map template. Format is <Sector>_SWED_<IS or PW> plus optional elements using harmonised abbreviations.		[Pink]
1.3	Short description of process/activity covered*	Explanation of the activities covered by the SWED (supplements the SWED title).		Free text/Standard phrase
1.4.1	Short description of the applicability domain (in terms of substance properties)	When relevant and when known, identify any boundaries with respect to substance properties (e.g. hazard classification, volatility bands, DNEL bands). The intention is to help registrants identify the appropriate SWEDs for their substance	[Yellow]	
1.4.2	Short description of factors during use that may influence selection of modelling tool	When relevant and when known, identify any considerations during use that may influence exposure estimation (e.g. generation of aerosols). The intention is to help registrants identify the appropriate estimation method for their substance, and the method could be recommended here. In general, provide contextual information and details here and at relevant points in this form to help the registrant choose the appropriate model parameters.		
1.5	Relevant SUMI(s) for end-user communication	Give SUMI reference if there is an available SUMI for communication to end-users, corresponding to the activity(ies) and sets of conditions of use described in this SWED.	SUMI reference(s)	SUMI r
1.6	Relevant contributing activity(ies)*	Describe the CA covered by this SWED in the two rows below. Insert extra grey rows for any additional CA included in the SWED, and increase lettering (1.6a, 1.6b..) All CA in a single column must have the same conditions of use.		
1.6a.1	Contributing activity/scenario name*	Indicate the name of the contributing activity(ies) covered by this SWED. This is the same as the CA name in column O of the Use Map Template.	[Blue]	[Pink]
1.6a.2	Corresponding PROC*	Indicate the PROC(s) that are covered by this SWED. The description of PROCs is available in the worksheet "PROC & effectiveness". This is the same as the CA descriptor in column R of the Use Map Template.		
1.7	Last Revision date	Provide the date of the latest SWED revision in the format dd/mm/yyyy, or version number	[Blue]	



This information is displayed in the CSR



This information is displayed in the ES for communication



Only relevant for the assessor

Specific consumer exposure determinant (SCED)



SCED data structure

Input for
assessment
by route of
exposure

Exposure Determinants or Descriptors	Value ¹ and [ESCOM]
SCED characteristics	
Name of the SCEDs	Title from each association
PC/AC descriptor	PC/AC number
SCED code	<sector><SCED><PC / AC Code><number>
Code of other related SCED	n.a./<sector><SCED><PC / AC Code><number>
Author	Association name
Source of SCED	Association website where the SCED can be found
Physical form of the products	Choose an item.
User characteristics	
Adult/child assumed	Product used by adult (defaults based on SCED code)
Common Determinants	
Concentration of substance in mixture (g/g)	Numerical (Default maximum 1)
Explanations	(Substance specific information) Free text
Frequency of use over a day (event/day)	Numerical
Rationale	Free text
Frequency of use over a year	Choose an item.
Rationale	Free text

Dermal Specific Determinants	
Exposure via dermal route	Choose an item.
Rationale	Free text
Skin Contact Area	Choose an item.
Rationale	Free text
Dermal transfer factor	Numerical – (default 1)
Rationale	Free text
Inhalation Specific Determinants	
Exposure via inhalation route	Choose an item.
Rationale	Free text
Spray application?	Choose an item.
Amount of Product used per application (g/event)	Numerical
Rationale	Free text
Exposure Time per event (h)	Numerical
Rationale	Free text
Inhalation transfer factor	Numerical – (default 1)
Rationale	Free text
Place of use	Choose an item.
Oral Specific Determinants	
Exposure via oral route	Choose an item.
Rationale	Free text
Volume swallowed (cm ³)	Numerical
Rationale	Free text
Oral transfer Factor	Numerical – (default 1)
Rationale	Free text

Scope
of the
SCED

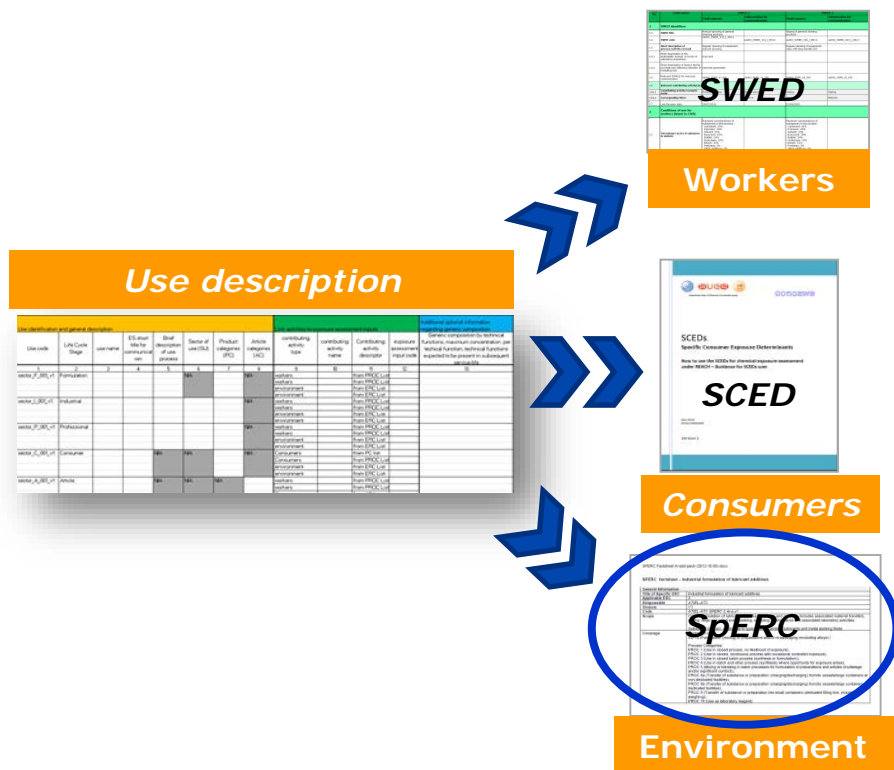
Input
for
assessment

Specific environmental release category (SPERC)



What are SPERCs?

Specific Environmental Release Category



- Information defined by industry sectors describing (for a use):
 - ✓ **Set of conditions of use and risk management measures** for the environment
 - ✓ **Related release factors** (including explanations on their origin)
- Can be used by registrants as input to their exposure assessment, and chemical safety report (fields aligned with IUCLID)
- Ensures realistic and relevant assessments
- Includes suitable standard phrases that help registrants to communicate effectively with downstream users.
- Further explained in *ECHA Guidance on CSA R. 16*

Indicate what is included in extended safety data sheet

SPERC information structure

FS Section	Content field	Explanation of content	CSR	eSDS
1. Title	1.1 Title of SPERC. freetext		Y	Y
	1.2 SPERC code: picklist (select one)*		Y	Y
2. Scope	2.1 Substance/Product Domain			
	Substance types / functions / properties included or excluded: freetext		Y	N
	Additional specification of product types covered: freetext			
	Inclusion of sub-SPERCs: y/n		Y	N
	2.2 Process domain			
	Description of activities/processes: freetext		Y	N
	2.3 List of applicable UDs			
	LCS: picklist (select one)*		Y	Y
	SU: picklist (multi-select)*		Y	Y
	PC: picklist (multi-select)*		Y	Y
3. Operational conditions	3.1 Conditions of use			

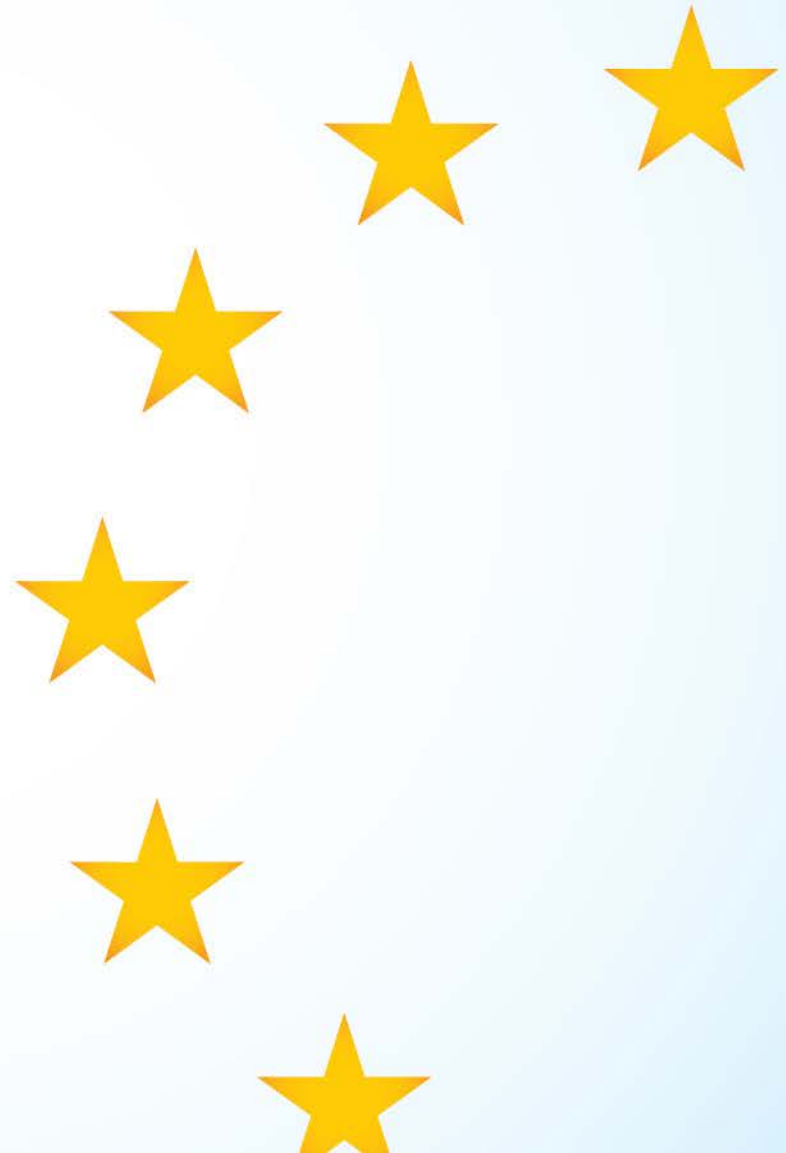
Scope

Input for assessment

Key messages on use maps

- Use map information used by registrants as input for exposure assessment and chemical safety report
- Ensure realistic and relevant assessments
- Use map information communicated to downstream users in extended safety data sheet
- Automatic translation of extended safety data sheets easier with standard phrases
- Important to understand how information in the use map is used and by whom

Use maps in practice



More information on use maps



- Unique point of access



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EUROPEAN CHEMICALS AGENCY

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- Registration

Use maps

Concept Templates and submission **Use maps library**

This library provides the available use maps and exposure assessment input (sector-specific worker exposure descriptions (SWEDs), specific environmental release categories (SPERCs) and specific consumer exposure determinants (SCEDs)) files submitted by sector organisations.

These use maps have been prepared by sector organisations representing downstream users as part of the CSR/ES Roadmap initiative to improve the quality of the information in the REACH chemical safety report.

- Empty templates
- Library containing use maps elements

Use map library

Use maps

Concept

Templates and submission

Use maps library

This library provides the available use maps and exposure assessment input (sector-specific worker exposure descriptions (SWEDs), specific environmental release categories (SPERCs) and specific consumer exposure determinants (SCEDs)) files submitted by sector organisations.

These use maps have been prepared by sector organisations representing downstream users as part of the CSR/ES Roadmap initiative to improve the quality of the information in the REACH chemical safety report.

This information on use and exposure is being made available to support registrants in preparing their chemical safety assessments (CSAs), by providing realistic information on use and conditions of use agreed at sector level. Registrants are encouraged to be aware of the availability of use maps for the sectors they supply and use this information to prepare their CSAs.

The table below gives an overview of the sectors that have submitted information in the library.

> **A.I.S.E.**
Soaps, Detergents and Maintenance products

> **Cosmetics Europe**
Cosmetics and personal care products

> **EFCC**
Construction Chemicals

> **FEICA**
Adhesive and sealant industry

> **I&P Europe**
Imaging and printing products

Related links

- > [Downstream users](#)
- > [CSR/ES roadmap](#)
- > [How to improve your dossier](#)
- > [Overview table of associations activities \(January 2016\)](#)
- > [Joint statement of Cefic, DUCC and ECHA on use maps](#)

Use map library content

▼ **A.I.S.E.**
Soaps, Detergents and Maintenance products

Sector acronym	A.I.S.E.
Sector name	Soaps, Detergents and Maintenance products
Keywords	<p>Substances involved: Solvents, Surfactants, Waxes, Bases/Acids, Builders, Additives, Fragrances, Bleaching agents, Brighteners, Cleaning agents, Propellants, non-motive (blowing agents), ...</p> <p>Covered uses: Industrial, professional, consumer end-uses</p>
Use map elements	<p>Available: Use map, SWEDs, SPERCs, SCEDs</p> <p>Forthcoming: In the coming months: review of existing SPERCs and SCEDs</p>
Last updates	10/11/2016, Initial publication
General remarks	

> **Files**

Covered by the sector:

- Product types
- Substance types
- Uses

Use map elements:

- What is available
- What is planned
- Use map files directly downloadable


Use maps: state of play

- Five sector use maps available



- More sector use maps under development

Use maps: next steps

- More use maps expected
- Make use maps available in  format
“**win-win**” for downstream user sectors and registrants
- Workshop and support provided by ECHA
- Cefic pilot with all supply chain actors to illustrate application of use maps

Key messages

- Use maps are an efficient way for downstream users to inform registrants about realistic uses and conditions of use
- Key source of information for registrants to perform exposure assessments and communicate safe uses in the supply chain
- You play an active role

Thank you

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