

Development of SDS

Downstream User workshop

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Content

- Benefits of good communication
- Reporting uses
- Introduction to Exposure Scenarios
- Known issues



Why communication in the supply chain is needed

Manufacturer



Knows the properties of the substance

- Physico-chemical
- Toxicological
- Ecotoxicological

Downstream user



Knows in detail how the substance is used

- Process steps
- Operational conditions
- Risk management measures
- Foreseen products



The benefits of good communication

- Clear allocation of responsibilities of different actors
- Systematic consideration of safe use by consumers
- Downstream users can benefit from suppliers' assessments
- Authorities get an overview
 - where communication in the supply chain does not work
 - where there are uses not covered by the registrants' CSA

> More and better information on how chemicals are used in practice



Communication steps in the supply chain

1. Communication of uses to the registrant



- 2. Communication on safe use to own downstream user
- 3. Communication on safe use to own downstream user
- 4. Communication on safe use to own downstream user

Reporting uses for the 2013 deadline





Communicating uses for 2013 registrations

- Lesson learnt from 2010: Top-down approach recommended by industry associations
- Registrants in cooperation with their customers to actively communicate which uses they intend to cover
 - Intuitive, concrete description of the use
 - Use descriptors
- Sources for downstream users to check
 - Supplier's website
 - Section 1 of the current SDS
 - Other technical information from the supplier
 - Use mapping by own sector association
 - List of substances intended to be registered on the ECHA website



Communicating uses for 2013 registrations

- If use not found, substance-specific communication upstream
 - 1. Standardised, sector-specific description of <u>relevant</u> uses
 - 2. Relevant elements of the use descriptor system
 - 3. Conditions of use
- Standard formats (templates) available



Exposure Scenario: The novel communication vehicle under REACH



The vehicle for communication: Extended safety data sheet



-4



Main body

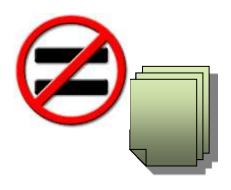
- Classification and labelling information
- Registered uses
- Threshold values for exposure (DNEL, PNEC)
- Physicochemical data
- Toxicological and ecotoxicological data

Exposure scenarios

- Use-specific operational conditions
- Use-specific risk management measures



Are own uses and the foreseeable uses further down the supply chain covered in the exposure scenario?



- Uses identified in ES title
- Process/tasks steps covered
- Conditions of safe use described



- Actual product category
- Actual process steps/tasks
- Actual conditions of use



If use/conditions of use are covered in the supplier's exposure scenario

- Document the outcome of your check
- Forward relevant information on uses/conditions of use to your customers (e.g. via extended SDS)
- 12 months to apply the conditions of use as in the exposure scenario



If use/conditions of use are not covered

- Ask your supplier to include non supported uses/conditions of use in his chemical safety report and to make available a new exposure scenario
- Adapt your activity and/or products to the conditions of safe use described in the exposure scenarios
- Look for another supplier whose exposure scenarios cover your uses
- Stop using the substance
- Carry out your own chemical safety assessment for your specific use/conditions of use and report to ECHA



Timelines if use not covered



ECHA.EUROPA.EU



Reporting to ECHA – web-based format

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Reporting to ECHA – web-based format

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We wish to report our use(s) which is/are not covered in the exposure scenarios received from our suppl (s):	General
We use the substance for the purposes of product and process oriented research and development and Further information on the reported use(s): The particular use(s) stare not covered in the exposure scenarios received from our suppler because we prefer	Reason(s)
CEI reasons Burdens of supply chain communications mechanism Other reasons(s)	Use(s)
The particular use(s) is/are not covered in the exposure scenarios received from our supplier attrough we const Exposure scenario title(s) mare inconsistent with our actual use(s) Our conditions of use are outside the conditions described in the exposure scenario Our use is adviced against by suppler Other reascris(s)	Use sites
	Suppliers
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Current issues





Known issues under discussion

- Length and complexity of extended SDS
- Scaling
- Exposure scenarios for mixtures
- Links with other environment, health and safety legislation



ECHA support

ENES

- ECHA Stakeholder Exchange Network on Exposure Scenarios
- Brings together manufacturers/importers, downstream users and authorities
- A platform for sharing best practise and practical solutions for making most out of the exposure scenarios
- Initiation and facilitation "Roadmap towards good quality CSR information" discussions
- www.echa.europa.eu/downstream



Exposure scenario for chemical safety report and communication

Example: consumer use of a substance in cleaning products



ES for CSR and ES for communication

- Exposure scenario in CSR contains justifications and comments
- Exposure scenario annexed to the safety data sheet will not
- Operational conditions and risk management measures must be consistent
- Process starts with conservative screening estimation (Tier 1)





EXPOSURE SCENARIO FOR CHEMICAL SAFETY REPORT AND COMMUNICATION EXAMPLE: CONSUMER USE OF A SUBSTANCE IN CLEANING PRODUCTS

echa.europa.eu/support





Substance selection and properties

- Alcohol widely used as a liquid component in several cleaning products (PC 35)
- Concentration in washing and cleaning products <5%
 - Maximum level of use, 15% for a conservative exposure assessment. Two exemptions:
 - Abrasive liquid: only up to 5%
 - Carpet cleaners: up to 30%
- Volatile, readily biodegradable, water soluble and low octanol-water partition coefficient
- Classified as highly flammable (harmonised classification)
- Above 50%, as an eye irritant (self-classification)



From toxicological and ecotoxicological information

- Quantitative risk assessment for long term systemic effect for both consumers and humans via de environment exposed to the substance via dermal, oral and inhalation
- **Quantitative** risk assessment for acute local effects for consumers exposed to the substance via inhalation
- Qualitative assessment for eye irritation to cover acute local effects via dermal exposure



Exposure assessment and exposure scenario

- Uses are described in a life-cycle tree structure
- Structure includes different stages (up to 8)
- Washing and cleaning products (PC35) are meant to be released to air or to waste water
- Operational conditions and risk management measures related to a use is contributing scenario
- One or more an **exposure scenario**



Exposure Assessment and Exposure Scenario for CSR

 All input parameters enabling calculations of exposure levels to which consumers, human via environment and environment are exposed included in the CSR:

transparency and reproducibility

 Determinants that reflect conditions of use and risk management measures included in the exposure scenario



- Product categories and product subcategories: key input parameters for consumer exposure estimation
- One contributing scenario per each product subcategory relevant for the assessment
- Aggregation of different product subcategories when:
 - Different product subcategories characterised by common feature
 - Possible to identify one subcategory representing the worst case
 - Condition of use of subcategory with highest exposure covers the other product subcategories
 - Aggregation case by case of contributing scenarios



Application of ConsExpo methodology

- RCR for inhalation short term exposure above 1 (RCR=3,9) ⇒ Tier 2
- Surface cleaning products (subcategory 2 for PC35 in ECETOC TRA)
- To obtain a more precise exposure estimation



• Five contributing scenarios:

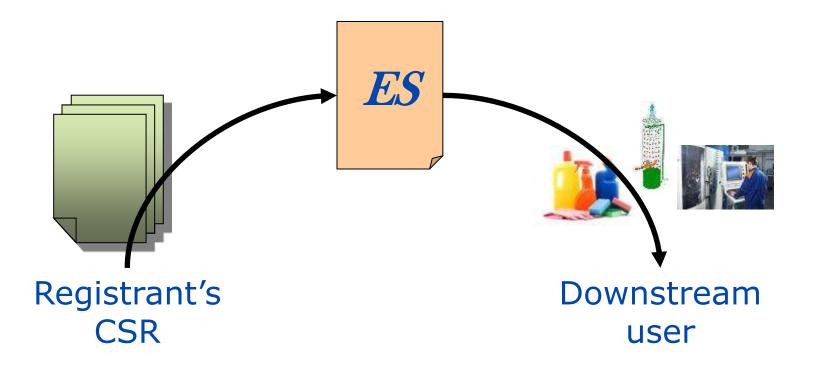
- 1. Laundry and dishwashing products (ECETOC TRA)
- 2. Spray cleaner (ECETOC TRA)
- Surface cleaning product diluted before use (ConsExpo 4.1)
- 4. Abrasive liquid cleaner (ECETOC TRA)
- 5. Carpet cleaner (ConsExpo 4.1)



- Use of carpet cleaner evaluated separately. Covers a special use:
 - High volume
 - High quantity
- Different tasks with same product subcategory merged for exposure assessment:
 - Reduce the granularity of relevant contributing scenario
- Exposure via the oral route not relevant factor



Exposure scenarios for communication





Sections of the ES (1) Title section

Is this Exposure Scenario relevant for me? (DU)





Sections of the ES (2) OC and RMM

- Ensures safes use of the substance
- Information presented in a structured way: sorted out under headings consistent with ES in the CSR
- A company producing consumer products should be able to establish whether:
 - -Design and use are in line with assumptions of registrant
 - -Generic assumptions are valid
 - -Whether registrant's assumptions impact technical instruction or behavioural advice to consumers



Sections of the ES (3) Summary of registrant's exposure estimation and risk characterisation

- Key values from the exposure estimates and risk characterisation
- Include methods used



Sections of the ES (4) Need for recalculation

Opportunity to provide info ⇒ DU can recalculate exposures for specific conditions of use and scaling



Appendix - ES for CSR

• Exposure scenarios describing

- Conditions of Use
- Exposure Estimations
- Risk characterisation reported in sections 9 and 10 of the CSR
- 9.0.1 General tables showing uses and exposure scenarios
- 9.0.2 Reports the scope and type of exposure assessment
- 9.1.1.x Contributing scenarios (first environment, then consumers)
 - -Add detail to uses and tasks
 - -Determinant linked to route of exposure and type of effect



Appendix - ES for CSR

- 9.1.2.x Provides exposure estimation for each contributing scenario:
 - Exposure estimation
 - Exposure assessment tools
 - Other remarks:
 - Model assumptions
 - Detailed information on source of exposure concentration or dose



Appendix - ES for CSR

10.1.1 Risk characterisation for human health for each contributing scenario

- Risk characterisation ratio for each route and type of effect
- Justifications for qualitative risk assessment
- Combined risk:
 - exposure via different routes
 - man via the environment contribution



9. EXPOSURE ASSESSMENT 9.0. General information 9.0.1. Overview of exposure scenarios and uses

Table 1. Overview of exposure scenarios (ES) described in sections 9.1ff.

ES number	Exposure scenario name	Manufacture / Use / Subsequent service life	Stage No.*)
1		Consumer use of alcohol in washing and cleaning product	C-1
	product	- Consumer use of laundry and dishwashing product	
		- Consumer use of trigger spray cleaner products	
		- Consumer use of liquid cleaning product for manual surface application	
		- Consumer use of abrasive product for manual surface application	
		- Consumer use of liquid cleaner for cleaning carpet	
*) A stage num	ber consists of an abbreviation of the main life cycle s	stage followed by a consecutive number.	L

Manufacture: M-#, Formulation: F-#, Industrial end use: IW-#, Professional end use: PW-#, Consumer end use: C-#, Service life (by workers in industrial settings): SL-IW-#, Service life (by professional workers): SL-PW-#, Service life (by consumers): SL-C-#.

Table 2. Overview of uses broken down by life cycle stages and the exposure scenarios (ES) described in sections 9.1ff.

Main life cycle stage	Stage No. *)	Manufacture / Use / Subsequent service life	Related subsequent service life	Market sector	Tonnage (tonnes per year)	ES No.
		Manufacture/Import			40000.0	
		- 40000.0 tonnes/year				
Consumer end use	C-1 (IUC-1)	Consumer use of alcohol in washing and cleaning product (ERC 8a) - Consumer use of laundry and dishwashing product (PC 35) - Consumer use of trigger spray cleaner products (PC 35) - Consumer use of liquid cleaning product for manual surface application (PC 35)			40000.0	1
		 Consumer use of abrasive product for manual surface application (PC 35) Consumer use of liquid cleaner for cleaning carpet (PC 35) 				

Manufacture: M-#, Formulation: F-#, Industrial end use: IW-#, Professional end use: PW-#, Consumer end use: C-#, Service life (by workers in industrial settings): SL-IW-



9.0.2. Scope and type of exposure assessment

9.0.2.1. Environment

Table 3. Scope and type of exposure assessment based on hazard assessment

Protection target	Type of assessment	Explanation / Justification	
Water: Fresh Water (Pelagic)	Quantitative	Quantitative exposure assessment (EUSES 2.1) and risk characterisation	
Water: Fresh Water (Sediment)	Quantitative	Quantitative exposure assessment (EUSES 2.1) and risk characterisation	
Water: Marine Water (Pelagic)	Quantitative	Quantitative exposure assessment (EUSES 2.1) and risk characterisation	
Water: Marine Water (Sediment)	Quantitative	Quantitative exposure assessment (EUSES 2.1) and risk characterisation	
Water: Fresh Water Food Chain (Predators)		No potential for bioaccumulation	
Water: Marine Water Food Chain (Predators)	Exposure assessment and risk characterisation not required	No potential for bioaccumulation	
Water: Marine Water Food Chain (Top Predators)	ood Chain (Top characterisation not required		
Water: Sewage Treatment Plant (Effluent)	Quantitative	Quantitative exposure assessment (EUSES 2.1) and risk characterisation	
Air	Quantitative exposure assessment		
Soil: Agricultural Soil	l Soil Quantitative Quantitative exposure assessment and risk characterisation		
Soil: Terrestrial Food Chain (Predators)	Exposure assessment and risk characterisation not required	No PNEC oral because no potential for bioaccumulation	



9.0.2 Scope and type of exposure assessment

- The substance has no potential for bioaccumulation therefore:
- No exposure assessment and risk characterisation for the following:
 - Water: fresh water food chain (predators)
 - Marine water food chain (predators and top predators)
 - Soil: terrestrial food chain (predators)



9.0.2.2. Consumer

Table 4. Scope and type of exposure assessment based on hazard assessment

Route of exposure and type of effects	Type of assessment	Explanation / Justification		
Inhalation: Acute, Local	Quantitative	Quantitative exposure assessment and risk characterisation. See DNEL in section 5,11.2.25		
Inhalation: Acute, Systemic	Exposure assessment and risk characterisation not required	No hazard identified for acute systemic effects (all routes).		
Inhalation: Long term, Local	Exposure assessment and risk characterisation not required	No hazard identified for long term local effects (all routes).		
Inhalation: Long term, Systemic	Quantitative	Quantitative exposure assessment and risk characterisation. See DNEL in section 5.11.2.		
Dermal: Acute, Local	Qualitative risk characterisation with quantitative exposure assessment where applicable	No-threshold effect and/or no dose-response information available		
Dermal: Acute, Systemic	Exposure assessment and risk characterisation not required	No hazard identified for acute systemic effects (all routes).		
Dermal: Long term, Local	Exposure assessment and risk characterisation not required	No hazard identified for long term local effects (all routes).		
Dermal: Long term, Systemic	Quantitative	Quantitative exposure assessment and risk characterisation. So DNEL in section 5.11.2.		
Oral: Acute, Systemic	Exposure assessment and risk characterisation not required	No hazard identified for acute systemic effects (all routes).		
Oral: Long term, Systemic	Quantitative	Quantitative exposure assessment and risk characterisation. See DNEL in section 5.11.2.		



9.0.2.2 Consumer

No hazard for acute systemic effects ⇒ no EA and RC for inhalation-derma-oral, acute, systemic

- No hazard for long term local effects ⇒ no EA and RC for inhalation-dermal, long term, local
- No-threshold effect and/or no dose-response information available ⇒ Qualitative RC with Quantitative EA where applicable



9.0.2.3. Man via environment

Table 5. Scope and type of exposure assessment based on hazard assessment

Route of exposure and type of effects	Type of assessment	Explanation / Justification
Inhalation: Long term, Systemic	Quantitative	Quantitative exposure assessment and risk characterisation. See DNEL in section 5.11.2.
Oral: Long term, Systemic	Quantitative	Quantitative exposure assessment and risk characterisation. See DNEL in section 5.11.2.



9.1 Consumer use of alcohol in washing and cleaning products

- Environment:
 - Use in cleaning product and processing aids: ERC 8a
- Consumer: (PC 35 for all)
 - Use of laundry and dishwahing product
 - Use of trigger spray cleaner products
 - Use of liquid cleaning product for manual surface application
 - Use of abrasive product for manual surface application
 - Use of liquid cleaner for cleaning carpet



9.1.1. Exposure scenario

9.1.1.1. Control of environmental exposure: Use in cleaning product as processing aids

Product characteristics Amounts used Daily wide dispersive use: = 0.022 tonnes/day Frequency and duration of use Environment factors not influenced by risk management Receiving surface water flow rate: >= 1.8E4 m³/d Other given operational conditions affecting environmental exposure Conditions and measures related to municipal sewage treatment plant Municipal STP: Yes [Effectiveness Water: 87.4%] Discharge rate of STP: >= 2E3 m³/d Application of the STP sludge on agricultural soil: Yes Conditions and measures related to external treatment of waste for disposal Conditions and measures related to external recovery of waste Additional good practice advice beyond the REACH CSA



9.1.1.2. Control of consumers exposure for "Use of laundry and dishwashing product" [PC 35]

Further specification: Covers use of washing product for both automated/machine and manual application according to ECETOC TRA product sub category 1

	Inha	al*)	Den	m*)	Ora	Oral*)	
	Loc	Sys	Loc	Sys	Loc	Sys	
Product characteristic			e .	с.	2		
 Concentration of the substance in the product: < 50% Substance not classified for eye irritancy below above mentioned concentration 			A				
 Concentration of the substance in the product: < 15 %²⁶ Source: Market data 	A	L		L		L	
Amounts used							
 Product amount per task: = 50 grams Source: Default ECETOC TRA for Sub Product "Laundry and dishwashing" 	A	L					
 Dilution of the product before application: = 1 times ECETOC TRA assumes exposure to undiluted product 	A	L		L		L	
Frequency and duration of use/exposure							
 Frequency: = 365 times/year ECETOC TRA assumes daily use of product. 	A	L		L		L	
 Duration of exposure: = 60 minutes Source: Default ECETOC TRA for Sub Product "Laundry and dishwashing" 	A	L					
Human factors not influenced by risk management							
 Exposed body parts: two hands (Skin surface: 860 cm²) Source: Default ECETOC TRA for Sub Product "Laundry and dishwashing" 				L			
Other given operational conditions affecting consumers exposure							
 Room where tasks take place: Generic room (Volume: 20 m³; no ventilation rate assumed) ECETOC TRA assumption 	A	L					
Conditions and measures related to information and behavioural advice to consumers							
Conditions and measures related to personal protection and hygiene							
Additional good practice advice beyond the REACH CSA							



9.1.2. Exposure estimation for Consumer use of alcohol in washing and cleaning product

9.1.2.1. Exposure estimation for the environment (Use in cleaning product as processing aids)

9.1.2.1.1. Environmental releases

Table 8. Summary of the local releases to the environment

Compartm ent	Release factor estimation method	Explanation / Justification
Water	ERC	Release factor after on site risk management (%): 100
	(ERC 8a)	Local release rate (kg/day): 22
Air	ERC	Release factor after on site risk management (%): 100
	(ERC 8a)	Explanation/Justification:
		Local release rate from wide dispersive use are taken into account at the regional scale only
Soil	ERC	Release factor after on site risk management (%): 0
	(ERC 8a)	Explanation/Justification:
		Indoor use has been assumed

Summed releases from all life cycle stages: see section 9.0.3.

9.1.2.1.2. Environmental exposure

>>>Caution: The exposure estimates have been obtained with EUSES although some parameters are outside EUSES model (see section 9.0.3.2): <<<

Table 9. Summary of exposure concentrations

Protection target	Exposure concentration	Explanation / Justification
Water: Fresh Water (Pelagic)	Local PEC: 0.151 mg/L Local concentration: 0.139 mg/L	
Water: Fresh Water (Sediment)	Local PEC: 0.646 mg/kg dw	
Water: Marine Water (Pelagic)	Local PEC: 0.015 mg/L Local concentration: 0.014 mg/L	
Water: Marine Water (Sediment)	Local PEC: 0.064 mg/kg dw	
Water: Sewage Treatment Plant (Effluent)	Local PEC: 1.39 mg/L	
Air	Local PEC: 2.39E-4 mg/m ³ Local concentration: 5.52E-6 mg/m ³	
Soil: Agricultural Soil	Local PEC: 0.019 mg/kg dw Local concentration: 0.018 mg/kg dw	



9.1.2.1.3. Indirect exposure of humans via the environment

Exposure via inhalation

The exposure concentrations in air are reported in the Table "Summary of exposure concentrations" of the preceding section 9. x.2.1.2 "Environmental exposure".

Exposure via food consumption: Total daily intake for humans

Table 10. Summary of estimated daily human doses and concentrations in food

Type of food	Daily human dose through intake		Explanation / Justification
	Total estimated daily in 0.005 mg/kg bw/day	ntake for humans:	
	Estimated daily dose through intake from local exposure	Concentration in food from local exposure	
Drinking water	0.004 mg/kg bw/day	0.151 mg/L	
Fish	3.49E-4 mg/kg bw/day	0.213 mg/kg	
Leaf crops	4.44E-5 mg/kg bw/day	0.003 mg/kg	
Root crops	1.01E-4 mg/kg bw/day	0.018 mg/kg	
Meat	2.9E-8 mg/kg bw/day	6.74E-6 mg/kg	
Milk	5.4E-7 mg/kg bw/day	6.74E-5 mg/kg	1
	Dose from regional exp 9.0.3.3	oosure: see section	



9.1.2.2. Exposure estimation for Consumer for Use of laundry and dishwashing product

Table 11. Summary of exposure concentrations for contributing scenario: Use of laundry and dishwashing product

Route of exposure and type of effects	Exposure concentration	Method / name of exposure assessment	Explanation / Justification
Inhalation: Acute, Local	375 mg/m³	Method: External exposure estimation tool Name: ECETOC TRA	Representativity and reliability: ECETOC TRA: Inhalation exposure model Remark on exposure value: Event concentration
Inhalation: Long term, Systemic	15.6 mg/m³	Method: External exposure estimation tool Name: ECETOC TRA	Representativity and reliability: ECETOC TRA: Inhalation exposure model Remark on exposure value: Event concentration avaraged over the day
Dermal: Acute, Local	Not available	Method: Conditions of use (OC/RMM) Name: Eye irritation	
Dermal: Long term, Systemic	21.4 mg/kg bw/day	Method: External exposure estimation tool Name: ECETOC TRA	Representativity and reliability: ECETOC TRA: dermal exposure model Remark on exposure value: Dose over the day
Oral: Long term, Systemic	0 mg/kg bw/day	Method: External exposure estimation tool Name: ECETOC TRA	Representativity and reliability: ECETOC TRA: oral exposure model Remark on exposure value: According to ECETOC TRA, oral exposure not relevant for this sub category



10. RISK CHARACTERISATION

See section 9.0.2 "Scope and type of exposure assessment" as to whether a risk characterisation is required for the different target groups and exposure pathways.

10.1. Consumer use of alcohol in washing and cleaning product

10.1.1. Human health

10.1.1.1. Workers

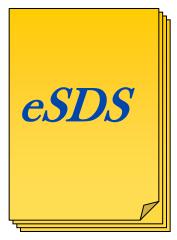
This exposure scenario does not address workers.

10.1.1.2. Consumers

Table 16. Risk characterisation: Consumer use of laundry and dishwashing product

Route of exposure and type of effects	Risk characterisation ratio	Risk characterisation
Inhalation: Acute, Local	RCR = 0.395	
Inhalation: Long term, Systemic	RCR = 0.137 Summed RCR including contribution of exposure via the environment (see section 9.x.2.1.3): 0.137	
Dermal: Acute, Local	Qualitative risk characterisation	Prevention of release/exposure: Eye irritancy controlled by substance concentration in product Expected residual exposure: Not relevant Conclusion on risk characterisation: Risk controlled
Dermal: Long term, Systemic	RCR = 0.104	
Oral: Long term, Systemic	RCR = 0	
Combined routes: Long term, Systemic	RCR = 0.241 Summed RCR including contribution of exposure via the environment (see section 9.x.2.1.3): 0.241	





ES FOR COMMUNICATION

(Full information)

Substance Name: Alcohol

EC Number: xxx-xxx-x

CAS Number: xx-xx-x

Registration Number: xxxxxxxxxxx²⁸

Date of Generation/Revision: 2011-07-20

Author:

1. ES 1: Consumer end-use (SU 21); washing and cleaning product

1. Title of Exposure scenario	
PC 35: Washing and cleaning product	
Environment: Component released during end-use	ERC 8a
Consumer	
Use of laundry and dishwashing product	PC 35
Use of trigger spray cleaner products	PC 35
Use of liquid cleaning product for manual surface application	PC 35
Use of abrasive product for manual surface application	PC 35
Use of liquid cleaner for cleaning carpet	PC 35



2.1 Cont	rol of environmental exposure: Component released during end use (ERC 8a)
Conditio	ns and measures related to municipal sewage treatment plant
Waste wa	ter is to be treated by municipal STP
2.2 Cont	rol of consumers exposure for Use of laundry and dishwashing product (PC 35)
Product	characteristics
	oncentration of substance in product up to < 15 %
Amount	used, frequency and duration of use/exposure
For each	use event, covers use amount up to 50 grams
Covers d	aily use
Covers d	uration of exposure up to 60 minutes
Other of	erational conditions affecting consumers exposure



Environment					
Release route	Release rate (kg/day)	Rele	Release estimation method		
Water	22	ERC	ERC - ERC 8a		
Air	0	ERC	ERC - ERC 8a		
Soil	0		ERC - ERC 8a		
Protection targ	et	Exposure estima EUSES 2.0)	te (based on:	RCR	
Freshwater (pelagic)		0.151 mg/L		0.157	
Freshwater (sediment)		0.646 mg/kg dw		0.179	
Freshwater (sediment)		0.646 mg/kg dw		0.179	
Marine water (pelagic)		0.015 mg/L		0.019	
Marine water (sediment)		0.064 mg/kg dw		0.022	
Freshwater food	chain (predators)				
Marine water fo	od chain (predators)	0			
Marine water fo	od chain (top predators)				
Effluent		1.39 mg/L		0.002	
Agricultural soil		0.019 mg/kg dw		0.03	
Terrestrial food	chain (predator)				
Risk characteri	sation for man via the en	vironment ²⁹			

Contributing scenario	Inhalation	Dermal	Oral	Combined routes	Exposure estimation Method
Use of laundry and dishwashing product (PC 35)		Exposure: 21.4 mg/kg bw/day RCR: 0.104	Exposure: 0 mg/kg bw/day RCR: 0	RCR: 0.241	Inhal: External exposure estimation tool - ECETOC TRA Derm: External exposure estimation tool - ECETOC TRA Oral: External exposure estimation tool - ECETOC TRA



Risk characterisation for acute systemic

Not required as no hazard identified

Contributing scenario	Acute	Long term	Exposure estimation Method
Use of laundry and dishwashing product (PC 35)	Exposure: 375 mg/m ³ RCR: 0.395	Not required as no hazard identified	Acute: External exposure estimation tool - ECETOC TRA

Contributing scenario	Acute	Long term	Exposure estimation Method
Use of laundry and dishwashing product (PC 35)	Exposure: RCR: Not available		Acute: Conditions of use (OC/RMM)



ES FOR COMMUNICATION

(reduced information)

Substance Name: Alcohol

EC Number: xxx-xxx-x

CAS Number: xx-xx-x

Registration Number: xxxxxxxxxxx³¹

Date of Generation/Revision: 2011-07-20

Author:

1. ES 0: Consumer end-use (SU 21); washing and cleaning products

1. Title of Exposure scenario	
PC 35: Washing and cleaning products	
Environment: Component released during use	ERC 8a
Consumer	
Use of laundry and dishwashing product	PC 35
Use of trigger spray cleaner products	PC 35
Use of liquid cleaning product for manual surface application	PC 35
Use of abrasive product for manual surface application	PC 35
Use of liquid cleaner for cleaning carpet	PC 35

2. Conditions of use affecting exposure
2.1 Control of environmental exposure: Component released during use (ERC 8a)
Conditions and measures related to municipal sewage treatment plant
Wastewater is to be treated by a municipal STP
2.2 Control of consumers exposure for Use of laundry and dishwashing product (PC 35)
Product characteristics
Covers concentration of substance in product up to < 15 %
Amount used, frequency and duration of use/exposure
For each use event, covers use amount up to 50 grams
Covers daily use



3. Exposure estimation and reference to its source Environment Release route Release route Release rate (kg/day) Release route Release rate (kg/day) Water 22 Air 0 Soil 0 ERC - ERC 8a

Protection target	Exposure estimate (based on: EUSES 2.0)	RCR
Freshwater (pelagic)	0.151 mg/L	0.157
Freshwater (sediment)	0.646 mg/kg dw	0.179
Freshwater (sediment)	0.646 mg/kg dw	0.179
Marine water (pelagic)	0.015 mg/L	0.019
Marine water (sediment)	0.064 mg/kg dw	0.022
Freshwater food chain (predators)		
Marine water food chain (predators)		
Marine water food chain (top predators)		
Effluent	1.39 mg/L	0.002
Agricultural soil	0.019 mg/kg dw	0.03
Terrestrial food chain (predator)		

Risk characterisation for man via the environment ⁵²				
Inhalation: 0				
Oral: 0				



Contributing scenario	Inhalation	Dermal	Oral	Combined routes	Exposure estimation Method
Use of laundry and dishwashing product (PC 35)	Exposure: 15.6 mg/m³ RCR: 0.137	bw/day	mg/kg bw/day	RCR: 0.241	Inhal: External exposure estimation tool - ECETOC TRA Reference to Subcategory 1 PC35 ³³ Derm: External exposure estimation tool - ECETOC TRA Reference to Subcategory 1 PC35 Oral: External exposure estimation tool - ECETOC TRA Reference to Subcategory 1 PC35



Not required as no hazard identified

Contributing scenario	Acute	Long term	Exposure estimation Method
Use of laundry and dishwashing product (PC 35)	Exposure: 375	Not required	Acute: External exposure
	mg/m ³	as no hazard	estimation tool - ECETOC TRA
	RCR: 0.395	identified	Reference to Subcategory 1 PC35

Contributing scenario	Acute	Long term	Exposure estimation Method
Use of laundry and dishwashing product (PC 35)	Exposure: RCR: Not available	Not required as no hazard identified	Acute: Conditions of use (OC/RMM)

Your turn to ask!

http://echa.europa.eu



Development of SDS Downstream user workshop

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