

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DISPERBYK-118

Version 9.0  
SDB\_IE

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 16.05.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : DISPERBYK-118  
UFI : 6PR1-R0CC-Y003-E8GR  
Product code : 000000000000126676

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Wetting & Dispersing Additive

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-0  
Telefax : +49 281 65735  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone number

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

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Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : solution of polymeric phosphoric acid ester

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 12,5 - < 20

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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- Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides  
Oxides of phosphorus

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : No smoking. Keep container tightly closed in a dry and well-



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Substance name	Environmental Compartment	Value
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Marine water	0,0635 mg/l
	Intermittent releases	6,35 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	3,29 mg/kg
	Marine sediment	0,329 mg/kg
	Soil	0,29 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Material : butyl-rubber

Break through time : 120 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Colour : yellow - brown, milky  
Odour : ester-like  
Odour Threshold : No data available  
  
Melting point/freezing point : < 5 °C  
Method: derived  
  
Initial boiling point and boiling range : 146 °C  
Method: derived  
  
Upper explosion limit / Upper flammability limit : No data available  
  
Lower explosion limit / Lower flammability limit : No data available  
  
Flash point : 58 °C  
Method: 49 (Pensky-Martens)  
  
Auto-ignition temperature : > 200 °C

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Method: DIN 51794

Decomposition temperature	:	No data available
pH	:	2,5 (20 °C) Concentration: 10 % Method: Universal pH-value indicator
Viscosity	:	
Viscosity, dynamic	:	No data available
Solubility(ies)	:	
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	3,55 hPa (20 °C) Method: derived
Relative density	:	No data available
Density	:	1,066 g/cm <sup>3</sup> (20 °C, 1.013 hPa) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Relative vapour density	:	No data available

### 9.2 Other information

Flammability (liquids)	:	Sustains combustion
Evaporation rate	:	No data available
Conductivity	:	0,00 µS/cm

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
		Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid : Metals  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

##### Components:

#### 2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

##### Product:

Remarks : No data available

##### Components:

#### 2-methoxy-1-methylethyl acetate:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### Serious eye damage/eye irritation

##### Components:

#### 2-methoxy-1-methylethyl acetate:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

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### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### 2-methoxy-1-methylethyl acetate:

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Carcinogenicity

#### Product:

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### STOT - single exposure

#### Product:

Remarks : No data available

#### Components:

##### 2-methoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

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Remarks : No data available

### Aspiration toxicity

**Product:**

No data available

### 11.2 Information on other hazards

#### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

**Product:**

Remarks : Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

**Components:**

#### 2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Fish): 100 - 180 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: no

### 12.2 Persistence and degradability

**Product:**

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Biodegradability : Remarks: No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n- : log Pow: 1,2 (20 °C)  
octanol/water pH: 6,8  
Method: OECD Test Guideline 117  
GLP: yes

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

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Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR** : UN 3272  
**RID** : UN 3272  
**IMDG** : UN 3272  
**IATA** : UN 3272

#### 14.2 UN proper shipping name

**ADR** : ESTERS, N.O.S.  
(1-Methoxy-2-propanol acetate)  
**RID** : ESTERS, N.O.S.  
(1-Methoxy-2-propanol acetate)  
**IMDG** : ESTERS, N.O.S.  
(1-Methoxy-2-propanol acetate)  
**IATA** : Esters, n.o.s.  
(1-Methoxy-2-propanol acetate)

#### 14.3 Transport hazard class(es)

**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

#### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E

**RID**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**IMDG**  
Packing group : III

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Labels : 3  
EmS Code : F-E, S-D  
Remarks : IMDG Code segregation group - none

### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Fire Hazard Class : -: -

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

### 15.2 Chemical safety assessment

Not applicable

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### SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H336 : May cause drowsiness or dizziness.

#### Full text of other abbreviations

Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
IE OEL : Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)  
IE OEL / OELV - 15 min (STEL) : Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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### Further information

#### Classification of the mixture:

Flam. Liq. 3

H226

#### Classification procedure:

Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

IE / EN

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### Annex: Exposure Scenarios

#### Table of Contents

Number	Title
ES 1	Processing aid; Industrial uses (SU3).
ES 2	Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).
ES 3	Use in coatings; Industrial uses (SU3).
ES 4	Use in coatings; Professional uses (SU22).
ES 5	Cleaning; Industrial uses (SU3).
ES 6	Cleaning; Professional uses (SU22).
ES 7	Use in coatings; Consumer uses (SU21).
ES 8	Cleaning; Consumer uses (SU21).

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### ES 1: Processing aid; Industrial uses (SU3).

#### 1.1. Title section

<b>Exposure Scenario name</b>	: Processing aid
<b>Structured Short Title</b>	: Processing aid; Industrial uses (SU3).

Environment		
<b>CS 1</b>	<b>Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b>	ERC4
Worker		
<b>CS 2</b>	<b>Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>	PROC1
<b>CS 3</b>	<b>Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b>	PROC2
<b>CS 4</b>	<b>Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</b>	PROC3
<b>CS 5</b>	<b>Chemical production where opportunity for exposure arises</b>	PROC4
<b>CS 6</b>	<b>Transfer of substance or mixture (charging/discharging) at non dedicated-facilities</b>	PROC8a
<b>CS 7</b>	<b>Transfer of substance or mixture (charging/discharging) at dedicated facilities</b>	PROC8b
<b>CS 8</b>	<b>Use as laboratory reagent</b>	PROC15

#### 1.2. Conditions of use affecting exposure

##### 1.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Daily amount per site	: 2200 kg
Release type	: Continuous release
Emission days	: 300

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<b>Technical and organisational conditions and measures</b>	
Treat air emissions. Air - minimum efficiency of 87,3 %	
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal sewage treatment plant
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: Dispose of waste product or used containers according to local regulations. Hazardous waste incineration
<b>Other conditions affecting environmental exposure</b>	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Vapour recovery (e.g. adsorption) When not in use, keep containers tightly closed.	

### 1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

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**Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply**

Assumes a good basic standard of occupational hygiene is implemented

### 1.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 1.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours

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<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 1.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 1.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid

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Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**1.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Clear transfer lines prior to de-coupling.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

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### 1.2.8. Control of worker exposure: Use as laboratory reagent (PROC15)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

### 1.3. Exposure estimation and reference to its source

#### 1.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Release route	Release rate	Release estimation method
Soil		ESVOC SPERC 4.20.v1
Water		ESVOC SPERC 4.20.v1
Air		ESVOC SPERC 4.20.v1

Protection Target	Exposure estimate	RCR
Freshwater	0,0022 mg/L	0,004
Freshwater sediment	0,0114 mg/kg dry weight	0,004
Marine water	0,0004 mg/L	0,006
Marine sediment	0,0020 mg/kg dry weight	0,006
Soil	0,00127 mg/kg dry weight	0,005

#### 1.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	
dermal	systemic	long-term	0,34 mg/kg bw/day	

### 1.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,51 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,02
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,03

### 1.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,53 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,06
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,06

### 1.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

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### 1.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 1.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 1.3.8. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,10

## 1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 2: Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).

#### 2.1. Title section

<b>Exposure Scenario name</b>	: Formulation & (re)packing of substances and mixtures
<b>Structured Short Title</b>	: Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).

Environment		
CS 1	Formulation into mixture	ERC2
Worker		
CS 2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4
CS 6	Mixing or blending in batch processes	PROC5
CS 7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 8	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 10	Tabletting, compression, extrusion, pelettisation, granulation	PROC14
CS 11	Use as laboratory reagent	PROC15

#### 2.2. Conditions of use affecting exposure

##### 2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Product (article) characteristics	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	

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Daily amount per site	:	234666 kg
Release type	:	Continuous release
Emission days	:	225
<b>Conditions and measures related to sewage treatment plant</b>		
STP type	:	Onsite sewage treatment plant
STP type	:	Municipal Sewage Treatment Plant
<b>Conditions and measures related to treatment of waste (including article waste)</b>		
Waste treatment	:	Dispose of waste product or used containers according to local regulations. Hazardous waste incineration
<b>Other conditions affecting environmental exposure</b>		
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>		
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Vapour recovery (e.g. adsorption) When not in use, keep containers tightly closed. Prevent leaks and prevent soil / water pollution caused by leaks.		

### 2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Vapour pressure	:	0,5 kPa
Temperature	:	20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>		
Duration	:	Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>		
No other specific measures identified.		
<b>Other conditions affecting workers exposure</b>		

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Temperature	: Assumes use at not more than 20°C above ambient temperature.
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Assumes a good basic standard of occupational hygiene is implemented	

### 2.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 2.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C

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<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**2.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**2.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)**

<b>Product (article) characteristics</b>
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Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 2.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

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**2.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**2.2.9. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	

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<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 2.2.10. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 2.2.11. Control of worker exposure: Use as laboratory reagent (PROC15)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C

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<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

### 2.3. Exposure estimation and reference to its source

#### 2.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Release route	Release rate	Release estimation method
Soil		CEPE SPERC 2.1b.v1
Water		CEPE SPERC 2.1b.v1
Air		CEPE SPERC 2.1b.v1

Protection Target	Exposure estimate	RCR
Freshwater	0,0022 mg/L	0,004
Freshwater sediment	0,011 mg/kg dry weight	0,004
Marine water	0,0004 mg/L	0,006
Marine sediment	0,00202 mg/kg dry weight	0,006
Soil	0,00127 mg/kg dry weight	0,010

#### 2.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	
dermal	systemic	long-term	0,34 mg/kg bw/day	

#### 2.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,51 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,02
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,03

### 2.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,53 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,06
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,06

### 2.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 2.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,70
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC	0,09

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			TRA worker v2.0)	
combined routes				0,79

### 2.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 2.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 2.3.9. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 2.3.10. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	3,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,02
combined routes				0,12

### 2.3.11. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,10

### 2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 3: Use in coatings; Industrial uses (SU3).

#### 3.1. Title section

<b>Exposure Scenario name</b>	: Use in coatings
<b>Structured Short Title</b>	: Use in coatings; Industrial uses (SU3).

Environment		
<b>CS 1</b>	<b>Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b>	ERC4
Worker		
<b>CS 2</b>	<b>Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>	PROC1
<b>CS 3</b>	<b>Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b>	PROC2
<b>CS 4</b>	<b>Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</b>	PROC3
<b>CS 5</b>	<b>Chemical production where opportunity for exposure arises</b>	PROC4
<b>CS 6</b>	<b>Mixing or blending in batch processes</b>	PROC5
<b>CS 7</b>	<b>Industrial spraying</b>	PROC7
<b>CS 8</b>	<b>Industrial spraying</b>	PROC7
<b>CS 9</b>	<b>Transfer of substance or mixture (charging/discharging) at non dedicated-facilities</b>	PROC8a
<b>CS 10</b>	<b>Transfer of substance or mixture (charging/discharging) at dedicated facilities</b>	PROC8b
<b>CS 11</b>	<b>Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b>	PROC9
<b>CS 12</b>	<b>Roller application or brushing</b>	PROC10
<b>CS 13</b>	<b>Treatment of articles by dipping and pouring</b>	PROC13
<b>CS 14</b>	<b>Tabletting, compression, extrusion, pelettisation, granulation</b>	PROC14
<b>CS 15</b>	<b>Use as laboratory reagent</b>	PROC15

#### 3.2. Conditions of use affecting exposure

**3.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)**

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<b>Product (article) characteristics</b>	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Daily amount per site	: 36000 kg
Release type	: Continuous release
Emission days	: 300
<b>Technical and organisational conditions and measures</b>	
Treat air emissions. Air - minimum efficiency of 98 %	
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal sewage treatment plant
STP type	: Onsite Sewage Treatment Plant
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: Hazardous waste incineration External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.
<b>Other conditions affecting environmental exposure</b>	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Vapour recovery (e.g. adsorption) When not in use, keep containers tightly closed.	

### 3.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa

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Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

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**3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**3.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	

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Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.7. Control of worker exposure: Industrial spraying (PROC7)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours

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<b>Technical and organisational conditions and measures</b>	
Carry out in a vented booth or extracted enclosure.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.8. Control of worker exposure: Industrial spraying (PROC7)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear a respirator conforming to EN140.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid

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Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.10. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

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### 3.2.11. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.12. Control of worker exposure: Roller application or brushing (PROC10)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

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ture.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>
Assumes a good basic standard of occupational hygiene is implemented

### 3.2.13. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 3.2.14. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours

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<b>Technical and organisational conditions and measures</b>
No other specific measures identified.
<b>Other conditions affecting workers exposure</b>
Temperature : Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>
Assumes a good basic standard of occupational hygiene is implemented

### 3.2.15. Control of worker exposure: Use as laboratory reagent (PROC15)

<b>Product (article) characteristics</b>
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 0,5 kPa
Temperature : 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>
Duration : Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>
No other specific measures identified.
<b>Other conditions affecting workers exposure</b>
Temperature : Assumes use at not more than 20°C above ambient temperature.

### 3.3. Exposure estimation and reference to its source

#### 3.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0,002 mg/L	
Freshwater sediment	0,012 mg/kg dry weight	
Marine water	0,0004 mg/L	

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Marine sediment	0,0020 mg/kg dry weight	
Soil	0,00124 mg/kg dry weight	

### 3.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	
dermal	systemic	long-term	0,34 mg/kg bw/day	

### 3.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,51 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,02
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,03

### 3.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,53 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,06
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,06

### 3.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 3.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,19

### 3.3.7. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	2,14 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,11

### 3.3.8. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	42,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,28
combined routes				0,48

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### 3.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 3.3.10. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 3.3.11. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 3.3.12. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA)	0,20

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			worker v2.0)	
dermal	systemic	long-term	27,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,18
combined routes				0,38

### 3.3.13. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 3.3.14. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	3,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,02
combined routes				0,12

### 3.3.15. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,10

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### **3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 4: Use in coatings; Professional uses (SU22).

#### 4.1. Title section

<b>Exposure Scenario name</b>	: Use in coatings
<b>Structured Short Title</b>	: Use in coatings; Professional uses (SU22).

Environment		
CS 1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)	ERC8a
Worker		
CS 2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4
CS 6	Mixing or blending in batch processes	PROC5
CS 7	Mixing or blending in batch processes	PROC5
CS 8	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 9	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 10	Non-industrial spraying	PROC11
CS 11	Roller application or brushing	PROC10
CS 12	Non-industrial spraying	PROC11
CS 13	Treatment of articles by dipping and pouring	PROC13
CS 14	Use as laboratory reagent	PROC15
CS 15	Manual activities involving hand contact	PROC19

#### 4.2. Conditions of use affecting exposure

##### 4.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

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<b>Product (article) characteristics</b>	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Daily amount per site	: 5000 kg
Release type	: Continuous release
Emission days	: 365
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal sewage treatment plant
STP type	: Onsite Sewage Treatment Plant
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: Hazardous waste incineration External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.
<b>Other conditions affecting environmental exposure</b>	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

#### 4.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	

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Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C

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<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

<b>Product (article) characteristics</b>
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Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Ensure operation is undertaken outdoors.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

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### 4.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	

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Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.10. Control of worker exposure: Non-industrial spraying (PROC11)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Carry out in a vented booth or extracted enclosure.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.11. Control of worker exposure: Roller application or brushing (PROC10)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours

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<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.12. Control of worker exposure: Non-industrial spraying (PROC11)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear a respirator conforming to EN140.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 4.2.13. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa

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Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**4.2.14. Control of worker exposure: Use as laboratory reagent (PROC15)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

**4.2.15. Control of worker exposure: Manual activities involving hand contact (PROC19)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid

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Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

### 4.3. Exposure estimation and reference to its source

#### 4.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Release route	Release rate	Release estimation method
Soil		ESVOC SPERC 8.3b.v1
Water		ESVOC SPERC 8.3b.v1
Air		ESVOC SPERC 8.3b.v1

Protection Target	Exposure estimate	RCR
Freshwater	0,003 mg/L	0,004
Freshwater sediment	0,014 mg/kg dry weight	0,004
Marine water	0,0004 mg/L	0,007
Marine sediment	0,002 mg/kg dry weight	0,007
Soil	0,001 mg/kg dry weight	0,004

#### 4.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup>	

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			(ECETOC TRA worker v2.0)	
dermal	systemic	long-term	0,34 mg/kg bw/day	

### 4.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,11

### 4.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,53 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,06
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,06

### 4.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,24

### 4.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 4.3.7. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 4.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	137,71 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,50
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,59

### 4.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA	0,04

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			worker v2.0)	
combined routes				0,24

### 4.3.10. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	2,14 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,11

### 4.3.11. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	137,71 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,50
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,18
combined routes				0,68

### 4.3.12. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	107,14 mg/kg bw/day (ECETOC TRA worker v2.0)	0,70
combined routes				0,90

### 4.3.13. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 4.3.14. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 4.3.15. Worker exposure: Manual activities involving hand contact (PROC19)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	137,71 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,50
dermal	systemic	long-term	28,29 mg/kg bw/day (ECETOC TRA worker v2.0)	0,18
combined routes				0,69

## 4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 5: Cleaning; Industrial uses (SU3).

#### 5.1. Title section

<b>Exposure Scenario name</b>	: Cleaning
<b>Structured Short Title</b>	: Cleaning; Industrial uses (SU3).

Environment		
<b>CS 1</b>	<b>Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b>	ERC4
Worker		
<b>CS 2</b>	<b>Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>	PROC1
<b>CS 3</b>	<b>Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b>	PROC2
<b>CS 4</b>	<b>Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</b>	PROC3
<b>CS 5</b>	<b>Chemical production where opportunity for exposure arises</b>	PROC4
<b>CS 6</b>	<b>Industrial spraying</b>	PROC7
<b>CS 7</b>	<b>Transfer of substance or mixture (charging/discharging) at non dedicated-facilities</b>	PROC8a
<b>CS 8</b>	<b>Roller application or brushing</b>	PROC10
<b>CS 9</b>	<b>Treatment of articles by dipping and pouring</b>	PROC13

#### 5.2. Conditions of use affecting exposure

##### 5.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Daily amount per site	: 5000 kg
Release type	: Continuous release
Emission days	: 20

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<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal sewage treatment plant
STP type	: Onsite Sewage Treatment Plant
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: Hazardous waste incineration External treatment and disposal of waste should comply with applicable local and/or national regulations.
<b>Other conditions affecting environmental exposure</b>	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Vapour recovery (e.g. adsorption) When not in use, keep containers tightly closed.	

### 5.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	

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### 5.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 5.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	

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No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 5.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 5.2.6. Control of worker exposure: Industrial spraying (PROC7)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C

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<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Exposure duration 240 min
<b>Technical and organisational conditions and measures</b>	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**5.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

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**5.2.8. Control of worker exposure: Roller application or brushing (PROC10)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**5.2.9. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

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Assumes a good basic standard of occupational hygiene is implemented

### 5.3. Exposure estimation and reference to its source

#### 5.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Release route	Release rate	Release estimation method
Soil		ESVOC SPERC 4.4a.v1
Water		ESVOC SPERC 4.4a.v1
Air		ESVOC SPERC 4.4a.v1

Protection Target	Exposure estimate	RCR
Freshwater	0,0024 mg/L	0,009
Freshwater sediment	0,0277 mg/kg dry weight	0,009
Marine water	0,0004 mg/L	0,011
Marine sediment	0,0037 mg/kg dry weight	0,011
Soil	0,001 mg/kg dry weight	0,004

#### 5.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	
dermal	systemic	long-term	0,34 mg/kg bw/day	

#### 5.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,51 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,02
dermal	systemic	long-term	1,37 mg/kg bw/day	0,01

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			(ECETOC TRA worker v2.0)	
combined routes				0,03

### 5.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,53 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,06
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	
combined routes				0,06

### 5.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,14

### 5.3.6. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	231,35 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,84
dermal	systemic	long-term	8,57 mg/kg bw/day (ECETOC TRA worker v2.0)	0,06
combined routes				0,90

### 5.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 5.3.8. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	27,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,18
combined routes				0,38

### 5.3.9. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

## 5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 6: Cleaning; Professional uses (SU22).

#### 6.1. Title section

<b>Exposure Scenario name</b>	: Cleaning
<b>Structured Short Title</b>	: Cleaning; Professional uses (SU22).

Environment		
CS 1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)	ERC8a
Worker		
CS 2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4
CS 6	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 7	Roller application or brushing	PROC10
CS 8	Treatment of articles by dipping and pouring	PROC13
CS 9	Non-industrial spraying	PROC11
CS 10	Non-industrial spraying	PROC11

#### 6.2. Conditions of use affecting exposure

##### 6.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Product (article) characteristics	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Daily amount per site	: 5000 kg
Release type	: Continuous release

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Emission days	: 20
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal sewage treatment plant
STP type	: Onsite Sewage Treatment Plant
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: Hazardous waste incineration External treatment and disposal of waste should comply with applicable local and/or national regulations.
<b>Other conditions affecting environmental exposure</b>	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Vapour recovery (e.g. adsorption) When not in use, keep containers tightly closed.	

### 6.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.

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Assumes a good basic standard of occupational hygiene is implemented

### 6.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 6.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours

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<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 6.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 6.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid

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Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Ensure operation is undertaken outdoors.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**6.2.7. Control of worker exposure: Roller application or brushing (PROC10)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**6.2.8. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)**

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<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
No other specific measures identified.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

**6.2.9. Control of worker exposure: Non-industrial spraying (PROC11)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374.	
<b>Other conditions affecting workers exposure</b>	

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Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 6.2.10. Control of worker exposure: Non-industrial spraying (PROC11)

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Ensure operation is undertaken outdoors.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374.	
<b>Other conditions affecting workers exposure</b>	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
<b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b>	
Assumes a good basic standard of occupational hygiene is implemented	

### 6.3. Exposure estimation and reference to its source

#### 6.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Release route	Release rate	Release estimation method
Soil		ESVOC SPERC 8.4b.v1
Water		ESVOC SPERC 8.4b.v1

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Air		ESVOC SPERC 8.4b.v1
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Protection Target	Exposure estimate	RCR
Freshwater	0,0022 mg/L	0,004
Freshwater sediment	0,0114 mg/kg dry weight	0,004
Marine water	0,0004 mg/L	0,006
Marine sediment	0,0020 mg/kg dry weight	0,006
Soil	0,001 mg/kg dry weight	0,003

### 6.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,06 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	
dermal	systemic	long-term	0,34 mg/kg bw/day	

### 6.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	27,54 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,10
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	0,01
combined routes				0,11

### 6.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,53 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,06
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v2.0)	

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			worker v2.0)	
combined routes				0,06

### 6.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	6,86 mg/kg bw/day (ECETOC TRA worker v2.0)	0,04
combined routes				0,24

### 6.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	96,40 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,35
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,44

### 6.3.7. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	137,71 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,50
dermal	systemic	long-term	27,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,18
combined routes				0,68

### 6.3.8. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	long-term	55,08 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,20
dermal	systemic	long-term	13,71 mg/kg bw/day (ECETOC TRA worker v2.0)	0,09
combined routes				0,29

### 6.3.9. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	165,25 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,60
dermal	systemic	long-term	21,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,14
combined routes				0,74

### 6.3.10. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	231,35 mg/m <sup>3</sup> (ECETOC TRA worker v2.0)	0,84
dermal	systemic	long-term	21,43 mg/kg bw/day (ECETOC TRA worker v2.0)	0,14
combined routes				0,98

## 6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet.

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Date of last issue: 11.11.2022  
Print Date 16.05.2025

### ES 7: Use in coatings; Consumer uses (SU21).

#### 7.1. Title section

<b>Exposure Scenario name</b>	:	Use in coatings
<b>Structured Short Title</b>	:	Use in coatings; Consumer uses (SU21).

Environment		
<b>CS 1</b>	<b>Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</b>	ERC8a
Consumer		
<b>CS 2</b>	Coatings and paints, thinners, paint removers	PC9a
<b>CS 3</b>	Ink and toners	PC18

#### 7.2. Conditions of use affecting exposure

##### 7.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Product (article) characteristics	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Daily amount per site	: 0,52 kg
Release type	: Continuous release
Emission days	: 365
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Other conditions affecting environmental exposure	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

##### 7.2.2. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

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<b>Product (article) characteristics</b>	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 10 Pa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount used per event	: 10 kg
Duration	: 132 min
Use frequency	: 1 uses per day
<b>Other conditions affecting consumers exposure</b>	
Room size	: 20 m3
Ventilation rate	: Covers use under typical household ventilation.

**7.2.3. Control of consumer exposure: Ink and toners (PC18)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 10 Pa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount used per event	: 0,04 kg
Duration	: 30 min
<b>Other conditions affecting consumers exposure</b>	
Room size	: 20 m3
Ventilation rate	: Covers use under typical household ventilation.

**7.3. Exposure estimation and reference to its source**

**7.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

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Release route	Release rate	Release estimation method
Soil		ESVOC SPERC 8.3c.v1
Water		ESVOC SPERC 8.3c.v1
Air		ESVOC SPERC 8.3c.v1

Protection Target	Exposure estimate	RCR
Freshwater	0,0023 mg/L	0,004
Freshwater sediment	0,0116 mg/kg dry weight	0,004
Marine water	0,0004 mg/L	0,007
Marine sediment	0,0021 mg/kg dry weight	0,007
Soil	0,001 mg/kg dry weight	0,003

### 7.3.2. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6,83 mg/m <sup>3</sup>	0,60
dermal	systemic	long-term	6 mg/kg bw/day	0,11
combined routes				0,70

### 7.3.3. Consumer exposure: Ink and toners (PC18)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,181 mg/m <sup>3</sup>	0,02
dermal	systemic	long-term	7,5 mg/kg bw/day	0,14
combined routes				0,16

## 7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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### ES 8: Cleaning; Consumer uses (SU21).

#### 8.1. Title section

<b>Exposure Scenario name</b>	: Cleaning
<b>Structured Short Title</b>	: Cleaning; Consumer uses (SU21).

<b>Environment</b>		
<b>CS 1</b>	<b>Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</b>	<b>ERC8a</b>
<b>Consumer</b>		
<b>CS 2</b>	<b>Washing and cleaning products</b>	<b>PC35</b>

#### 8.2. Conditions of use affecting exposure

##### 8.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

<b>Product (article) characteristics</b>	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Daily amount per site	: 0,27 kg
Emission days	: 365
<b>Other conditions affecting environmental exposure</b>	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

##### 8.2.2. Control of consumer exposure: Washing and cleaning products (PC35)

<b>Product (article) characteristics</b>	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 10 Pa
Temperature	: 20 °C

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Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,016 kg
Duration	: 60 min
Other conditions affecting consumers exposure	
Room size	: 15 m <sup>3</sup>
Ventilation rate	: Covers use under typical household ventilation.

### 8.3. Exposure estimation and reference to its source

#### 8.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Release route	Release rate	Release estimation method
Soil		ESVOC SPERC 8.4c.v1
Water		ESVOC SPERC 8.4c.v1
Air		ESVOC SPERC 8.4c.v1

Protection Target	Exposure estimate	RCR
Freshwater	0,0022 mg/L	0,004
Freshwater sediment	0,011 mg/kg dry weight	0,004
Marine water	0,00039 mg/L	0,006
Marine sediment	0,0020 mg/kg dry weight	0,006
Soil	0,001 mg/kg dry weight	0,003

#### 8.3.2. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,181 mg/m <sup>3</sup>	0,02
dermal	systemic	long-term	7,5 mg/kg bw/day	0,14
combined routes				0,16

### 8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

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Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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