

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-405

Version 13.0

SDB\_MT

Revision Date: 15.08.2023

Date of last issue: 01.02.2023

Print Date 21.01.2025

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

#### 1.1 Product identifier

Trade name : RHEOBYK-405

UFI : A6T7-40TC-V00W-4U5N

Product code : 000000000000129956

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

Use of the Substance/Mixture : Rheology 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.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

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### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### **Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### **Hazardous components which must be listed on the label:**

- 64742-95-6 Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
- 1330-20-7 Xylene, mixture of isomers
- 78-83-1 iso-butanol

### 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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Solution of polyhydroxycarboxylic acid amides

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 12,5 - < 20
Xylene, mixture of isomers	1330-20-7 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 12,5 - < 20
iso-butanol	78-83-1 201-148-0 01-2119484609-23	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system)	>= 5 - < 7
ethylbenzene	100-41-4 202-849-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304	>= 5 - < 7

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.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

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- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
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 induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### 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 : Cool closed containers exposed to fire with water spray.

Do not allow run-off from fire fighting to enter drains or water courses.

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Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

### 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.  
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.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
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 : 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.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.

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- Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
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 : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Xylene, mixture of isomers	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 221 mg/m <sup>3</sup>	MT OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
		STEL	100 ppm 442 mg/m <sup>3</sup>	MT OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm	2000/39/EC

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			884 mg/m <sup>3</sup>	
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 442 mg/m <sup>3</sup>	MT OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
		STEL	200 ppm 884 mg/m <sup>3</sup>	MT OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	Workers	Skin contact	Long-term exposure, Systemic effects	25 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	150 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term exposure, Systemic effects	11 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	32 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term exposure, Systemic effects	11 mg/kg
Xylene, mixture of isomers	Workers	Inhalation	Long-term systemic effects	221 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	442 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	212 mg/kg
	Consumers	Inhalation	Long-term systemic effects	65,3 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	125 mg/kg
	Consumers	Oral	Long-term systemic effects	1,5 mg/kg
	Consumers	Inhalation	Acute local effects	260 mg/m <sup>3</sup>
iso-butanol	Workers	Inhalation	Long-term local effects	310 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term local effects	55 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Xylene, mixture of isomers	Fresh water	0,327 mg/l
	Marine water	0,327 mg/l
	Fresh water sediment	12,46 mg/kg
	Marine sediment	12,46 mg/kg
	Soil	2,31 mg/kg
	Sewage treatment plant	6,58 mg/l

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	Intermittent releases	0,327 mg/l
iso-butanol	Fresh water	0,4 mg/l
	Marine water	0,04 mg/l
	Fresh water sediment	1,56 mg/kg
	Marine sediment	0,156 mg/kg
	Soil	0,0765 mg/kg
	Sewage treatment plant	10 mg/l
	Intermittent releases	11 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : > 0,4 mm

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.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

#### 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 : light brown  
Odour : not significant  
Odour Threshold : No data available  
  
Melting point/range : < 0 °C  
Method: estimated  
  
Initial boiling point : 106,00 °C  
Method: estimated  
  
Upper explosion limit / Upper flammability limit : 10,70 %(V)  
  
Lower explosion limit / Lower flammability limit : 1,00 %(V)

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Flash point	:	29,00 °C Method: 48 (Abel-Pensky) DIN 51755
Auto-ignition temperature	:	> 200,00 °C Method: DIN 51794
Decomposition temperature	:	No data available
pH	:	6 (20 °C) Concentration: 1 % Method: Universal pH-value indicator
Viscosity		
Viscosity, kinematic	:	228 mm <sup>2</sup> /s (40,00 °C)
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	< 7 hPa (20,00 °C) Method: calculated
Relative density	:	No data available
Density	:	0,9250 g/cm <sup>3</sup> (20,00 °C) 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
Surface tension	:	No data available

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## 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.

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Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored normally.

## 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

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg  
Method: OECD Test Guideline 402

#### **Xylene, mixture of isomers:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 4.200 mg/kg  
GLP: No information available.

#### **iso-butanol:**

Acute oral toxicity : LD50 (Rat, male): > 2.830 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

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Acute dermal toxicity : LD50 (Rabbit, male): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### Skin corrosion/irritation

#### Product:

Remarks : May irritate skin.  
May cause skin irritation in susceptible persons.

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

##### **iso-butanol:**

Species : Rabbit  
Result : Skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

##### **iso-butanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Test Type : Maximisation Test

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Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **iso-butanol:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### **Components:**

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### **Carcinogenicity**

#### **Product:**

Remarks : No data available

#### **Components:**

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### **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

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### STOT - repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : No data available

### Aspiration toxicity

**Product:**

No data available

### **Components:**

**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**iso-butanol:**

No aspiration toxicity classification

## 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 : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

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### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

- Toxicity to fish : LL50 (Fish): 9,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata): 2,6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

#### **Xylene, mixture of isomers:**

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 24 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l  
Exposure time: 7 d  
Species: Daphnia sp. (water flea)
- NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Daphnia sp. (water flea)

#### **iso-butanol:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.430 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 1.100 mg/l  
Exposure time: 48 h

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Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.799 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: No data available

#### **Components:**

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

##### **Xylene, mixture of isomers:**

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

##### **iso-butanol:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: No data available

#### **Components:**

##### **Xylene, mixture of isomers:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 25,9  
GLP: no

Partition coefficient: n-octanol/water : Pow: 3,2 (20 °C)  
pH: 7

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### iso-butanol:

Partition coefficient: n-octanol/water : log Pow: 1  
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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
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 1993

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**IMDG** : UN 1993

**IATA** : UN 1993

### 14.2 UN proper shipping name

**ADR** : FLAMMABLE LIQUID, N.O.S.  
(Xylene, Isobutanol)

**IMDG** : FLAMMABLE LIQUID, N.O.S.  
(XYLENE, Isobutanol)

**IATA** : Flammable liquid, n.o.s.  
(Xylene, Isobutanol)

### 14.3 Transport hazard class(es)

**ADR** : 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

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
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

**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

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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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

benzene  
(Number on list 72, 5, 29, 28)

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

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

## 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

H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.

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- H373 : May cause damage to organs through prolonged or repeated exposure.  
H411 : Toxic to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure  
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  
MT OEL : Malta. Occupational Exposure Limits  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
MT OEL / TWA : Long term exposure limit  
MT OEL / STEL : Occupational exposure limit value Short-term, 15 minute

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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; TECI - 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
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 3	H412

#### Classification procedure:

Based on product data or assessment
Calculation method

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.

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## Annex: Exposure Scenarios

### Table of Contents

Number	Title
ES 1	Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).; Formulation [mixing] of preparations and/or re-packaging (SU10).
ES 2	Use in coatings; Industrial uses (SU3).
ES 3	Use in laboratories; Industrial uses (SU3).; Formulation [mixing] of preparations and/or re-packaging (SU10).
ES 4	Use in coatings; Professional uses (SU22).
ES 5	Use in laboratories; Professional uses (SU22).
ES 6	Use in coatings; Consumer uses (SU21).

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**ES 1: Formulation & (re)packing of substances and mixtures; Industrial uses (SU3); Formulation [mixing] of preparations and/or re-packaging (SU10).**

### 1.1. 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); Formulation [mixing] of preparations and/or re-packaging (SU10).

Environment		
CS 1	Formulation into mixture, Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	ERC2, ERC4
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	Use in closed batch process (synthesis or formulation)	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	Chemical production where opportunity for exposure arises	PROC4
CS 11	Use as laboratory reagent	PROC15

### 1.2. Conditions of use affecting exposure

**1.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)**

Product (article) characteristics
Covers concentrations up to 100 %

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Physical form of product	: Liquid
Vapour pressure	: 50 hPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Annual amount per site	: 730000 kg
Release type	: Continuous release
Emission days	: 100
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal sewage treatment plant
STP sludge treatment	: No application of sewage sludge to soil Sewage sludge should be incinerated, contained or reclaimed.
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: 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

### 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>	
Handle substance within a closed system.	

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<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

### 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>
Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.
<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

### 1.2.4. Control of worker exposure: Use in closed batch process (synthesis or formulation) (PROC3)

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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>	
Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.	
<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	

### 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>	
Ensure material transfers are under containment or extract ventilation. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).	

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<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	

**1.2.6. 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>	
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	

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

<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>	
Transfer via enclosed lines. 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	

### 1.2.8. 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>	
Ensure material transfers are under containment or extract ventilation. Clear transfer lines prior to de-coupling.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	

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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 Clear spills immediately. Return IBCs or tanks to supplier for re-use.	

### 1.2.9. 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>	
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 Transfer via enclosed lines. Put lids on containers immediately after use. Clear spills immediately.	

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### 1.2.10. 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>	
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	

### 1.2.11. 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
<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>	
Handle in a fume cupboard or under extract ventilation.	

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<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

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

#### 1.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Release route	Release rate	Release estimation method
Air	10 kg/day	
Waste	0,2 kg/day	
Soil	0,1 kg/day	

#### 1.3.2. 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	0,01 ppm	0
dermal	systemic	long-term	0,34 mg/kg bw/day	0
combined routes				0

#### 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	10 ppm	0,56
dermal	systemic	long-term	1,37 mg/kg bw/day	0,01
combined routes				0,57

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### 1.3.4. Worker exposure: Use in closed batch process (synthesis or formulation) (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	17,5 ppm	0,99
dermal	systemic	long-term	0,34 mg/kg bw/day	0
combined routes				0,99

### 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	14 ppm	0,79
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,83

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	15 ppm	0,85
dermal	systemic	long-term	13,71 mg/kg bw/day	0,08
combined routes				0,92

### 1.3.7. 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	15 ppm	0,85
dermal	systemic	long-term	13,71 mg/kg bw/day	0,04
combined routes				0,92

### 1.3.8. 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	1,50 ppm	0,08
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04

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combined routes				0,12
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### 1.3.9. 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	15 ppm	0,85
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,88

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	15 ppm	0,85
dermal	systemic	long-term	3,43 mg/kg bw/day	0,02
combined routes				0,87

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	10 ppm	0,56
dermal	systemic	long-term	0,34 mg/kg bw/day	0
combined routes				0,57

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

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

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### ES 2: Use in coatings; Industrial uses (SU3).

#### 2.1. 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>Use in closed batch process (synthesis or formulation)</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>Transfer of substance or mixture (charging/discharging) at non dedicated-facilities</b>	PROC8a
<b>CS 9</b>	<b>Transfer of substance or mixture (charging/discharging) at dedicated facilities</b>	PROC8b
<b>CS 10</b>	<b>Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b>	PROC9
<b>CS 11</b>	<b>Roller application or brushing</b>	PROC10
<b>CS 12</b>	<b>Treatment of articles by dipping and pouring</b>	PROC13
<b>CS 13</b>	<b>Chemical production where opportunity for exposure arises</b>	PROC4
<b>CS 14</b>	<b>Use as laboratory reagent</b>	PROC15

#### 2.2. Conditions of use affecting exposure

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

<b>Product (article) characteristics</b>
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Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 5 hPa
Temperature	: 20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Release type	: Continuous release
Emission days	: 300
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Municipal Sewage Treatment Plant
STP sludge treatment	: Sewage sludge should be incinerated, contained or reclaimed.
<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Waste treatment	: 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

### 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>	
Handle substance within a closed system.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	

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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	

### 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>	
Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.	
<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	

### 2.2.4. Control of worker exposure: Use in closed batch process (synthesis or formulation) (PROC3)

<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>	
Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.	
<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	

### 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>	
Ensure material transfers are under containment or extract ventilation. 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>	

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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	

### 2.2.6. 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>	
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	

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

<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>	
Carry out in a vented booth provided with laminar airflow.	
<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	

### 2.2.8. 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>	
Drain down system prior to equipment break-in or maintenance. Provide a good standard of controlled ventilation (5 to 10 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	

### 2.2.9. 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>	
Ensure material transfers are under containment or extract ventilation. Clear transfer lines prior to de-coupling.	
<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 Clear spills immediately. Return IBCs or tanks to supplier for re-use.	

### 2.2.10. 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 %	

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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>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 Transfer via enclosed lines. Put lids on containers immediately after use. Clear spills immediately.	

### 2.2.11. 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
<b>Technical and organisational conditions and measures</b>	
Provide extract ventilation to points where emissions occur.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374.	

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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	

### 2.2.12. 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>	
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>	
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 Clear up spills immediately and dispose of waste safely. Avoid manual contact with wet work pieces.	

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

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	

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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>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	

### 2.2.14. 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>	
Handle in a fume cupboard or under extract ventilation.	
<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	

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

#### 2.3.1. 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
Air	980 kg/day	
Waste	0,7 kg/day	
Soil	0 kg/day	

#### 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	0,01 ppm	0
dermal	systemic	long-term	0,34 mg/kg bw/day	0
combined routes				0

#### 2.3.3. 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	10 ppm	0,56
dermal	systemic	long-term	1,37 mg/kg bw/day	0,01
combined routes				0,57

#### 2.3.4. Worker exposure: Use in closed batch process (synthesis or formulation) (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	17,5 ppm	0,99
dermal	systemic	long-term	0,34 mg/kg bw/day	0

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combined routes				0,99
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### 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	14 ppm	0,79
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,83

### 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	15 ppm	0,85
dermal	systemic	long-term	0,07 mg/kg bw/day	0,08
combined routes				0,85

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	12,50 ppm	0,71
dermal	systemic	long-term	2,14 mg/kg bw/day	0,01
combined routes				0,72

### 2.3.8. 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	5 ppm	0,28
dermal	systemic	long-term	1,37 mg/kg bw/day	0,01
combined routes				0,29

### 2.3.9. 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	1,50 ppm	0,08

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dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,12

### 2.3.10. 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	15 ppm	0,85
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,88

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5 ppm	0,28
dermal	systemic	long-term	27,43 mg/kg bw/day	0,15
combined routes				0,43

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	15 ppm	0,85
dermal	systemic	long-term	13,71 mg/kg bw/day	0,08
combined routes				0,92

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	15 ppm	0,85
dermal	systemic	long-term	3,43 mg/kg bw/day	0,02
combined routes				0,87

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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		<b>tor</b>	<b>mate</b>	
inhalative	systemic	long-term	0,60 ppm	0,03
dermal	systemic	long-term	0,03 mg/kg bw/day	0
combined routes				0,03

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

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

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### ES 3: Use in laboratories; Industrial uses (SU3).; Formulation [mixing] of preparations and/or re-packaging (SU10).

#### 3.1. Title section

<b>Exposure Scenario name</b>	:	Use in laboratories
<b>Structured Short Title</b>	:	Use in laboratories; Industrial uses (SU3).; Formulation [mixing] of preparations and/or re-packaging (SU10).

Environment		
<b>CS 1</b>	<b>Formulation into mixture, Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b>	ERC2, ERC4
Worker		
<b>CS 2</b>	<b>Roller application or brushing</b>	PROC10
<b>CS 3</b>	<b>Use as laboratory reagent</b>	PROC15

#### 3.2. Conditions of use affecting exposure

##### 3.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 50 hPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount per site	: 730000 kg
Release type	: Continuous release
Emission days	: 100
Conditions and measures related to sewage treatment plant	
STP type	: Municipal sewage treatment plant
STP sludge treatment	: No application of sewage sludge to soil Sewage sludge should be incinerated, contained or reclaimed.

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<b>Conditions and measures related to treatment of waste (including article waste)</b>	
Waste treatment	: 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

**3.2.2. 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>	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Use long handled tools.	
<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	

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

<b>Product (article) characteristics</b>

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Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 10 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 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.
<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	

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

#### 3.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Release route	Release rate	Release estimation method
Air	10 kg/day	
Waste	0,2 kg/day	
Soil	0,1 kg/day	

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	15 ppm	0,85
dermal	systemic	long-term	1,37 mg/kg bw/day	0,01
combined routes				0,86

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	10 ppm	0,56
dermal	systemic	long-term	0,03 mg/kg bw/day	0
combined routes				0,56

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

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), Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)	ERC8a, ERC8d
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	Use in closed batch process (synthesis or formulation)	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	Roller application or brushing	PROC10
CS 11	Non-industrial spraying	PROC11
CS 12	Treatment of articles by dipping and pouring	PROC13
CS 13	Chemical production where opportunity for exposure arises	PROC4
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) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)**

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Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 5 hPa
Temperature	: 20 °C

### 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)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Handle substance within a closed system.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374.	
Other conditions affecting workers exposure	
Temperature	: Assumes use at not more than 20°C above ambient temperature.
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	

### 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)

Product (article) characteristics	
Covers concentrations up to 100 %	

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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>	
Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.	
<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	

### 4.2.4. Control of worker exposure: Use in closed batch process (synthesis or formulation) (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>	
Handle substance within a closed system. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Use drum pumps.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374.	

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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 Clear up spills immediately and dispose of waste safely.	

### 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>	
Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 1 hour per day.	
<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	

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

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	

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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). Avoid carrying out activities involving exposure for more than 1 hour per day.	
<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	

### 4.2.7. 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>	
Transfer via enclosed lines. 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.	

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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	

### 4.2.8. 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>	
Transfer via enclosed lines. 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 Clear spills immediately. Return IBCs or tanks to supplier for re-use.	

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

<b>Product (article) characteristics</b>
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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>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 Transfer via enclosed lines. Put lids on containers immediately after use. Clear spills immediately.	

### 4.2.10. 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>	
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>	

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Wear suitable gloves tested to EN374. 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	

### 4.2.11. 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 provided with laminar airflow.	
<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	

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

<b>Product (article) characteristics</b>	
Covers concentrations up to 100 %	

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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 extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 1 hour per day.	
<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 Clear up spills immediately and dispose of waste safely. Avoid manual contact with wet work pieces.	

### 4.2.13. 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>	
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.	

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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	

### 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>	
Handle in a fume cupboard or under extract ventilation.	
<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	

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

<b>Product (article) characteristics</b>	
Covers concentrations up to 5 %	
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>	
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>	
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	

### 4.3. 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) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)**

Release route	Release rate	Release estimation method
Air	980 kg/day	
Waste	10 kg/day	
Soil	10 kg/day	

**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	0,01 ppm	0
dermal	systemic	long-term	0,34 mg/kg bw/day	0
combined routes				0

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### 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	4 ppm	0,23
dermal	systemic	long-term	0,14 mg/kg bw/day	0
combined routes				0,23

### 4.3.4. Worker exposure: Use in closed batch process (synthesis or formulation) (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	7,5 ppm	0,42
dermal	systemic	long-term	0,03 mg/kg bw/day	0
combined routes				0,42

### 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	7 ppm	0,39
dermal	systemic	long-term	1,37 mg/kg bw/day	0,01
combined routes				0,40

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6 ppm	0,34
dermal	systemic	long-term	13,71 mg/kg bw/day	0,08
combined routes				0,41

### 4.3.7. 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	14 ppm	0,79
dermal	systemic	long-term	13,71 mg/kg bw/day	0,08

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combined routes				0,87
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### 4.3.8. 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	15 ppm	0,85
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,88

### 4.3.9. 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	15 ppm	0,85
dermal	systemic	long-term	6,86 mg/kg bw/day	0,04
combined routes				0,88

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3 ppm	0,17
dermal	systemic	long-term	27,43 mg/kg bw/day	0,15
combined routes				0,32

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5 ppm	0,28
dermal	systemic	long-term	13,71 mg/kg bw/day	0,08
combined routes				0,29

### 4.3.12. 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	12 ppm	0,68
dermal	systemic	long-term	0,69 mg/kg bw/day	0
combined routes				0,68

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	15 ppm	0,85
dermal	systemic	long-term	3,43 mg/kg bw/day	0,02
combined routes				0,87

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	10 ppm	0,56
dermal	systemic	long-term	0,34 mg/kg bw/day	0
combined routes				0,57

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6 ppm	0,34
dermal	systemic	long-term	28,29 mg/kg bw/day	0,16
combined routes				0,50

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

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

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**ES 5: Use in laboratories; Professional uses (SU22).**

**5.1. Title section**

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

<b>Environment</b>		
<b>CS 1</b>	<b>Industrial use of processing aids in processes and products, not becoming part of articles</b>	ERC4
<b>CS 2</b>	<b>Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</b>	ERC8a
<b>Worker</b>		
<b>CS 3</b>	<b>Roller application or brushing</b>	PROC10

**5.2. Conditions of use affecting exposure**

**5.2.1. Control of environmental exposure: Industrial use of processing aids in processes and products, not becoming part of articles (ERC4)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Annual amount used in the EU	: 50000000 kg
Fraction of regional tonnage used locally	: 5000000 kg
Emission days	: 300
<b>Conditions and measures related to sewage treatment plant</b>	
STP type	: Onsite sewage treatment plant
STP sludge treatment	: No application of sewage sludge to soil
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2.000 m3/d
<b>Conditions and measures related to treatment of waste (including article waste)</b>	

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Waste treatment	:	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

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

<b>Product (article) characteristics</b>		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Vapour pressure	:	10 hPa
Temperature	:	20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>		
Annual amount per site	:	1 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 sludge treatment	:	No application of sewage sludge to soil Sewage sludge should be incinerated, contained or reclaimed.
<b>Other conditions affecting environmental exposure</b>		
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

### 5.2.3. 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

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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>	
Use long handled tools. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Handle in a fume cupboard or under extract ventilation.	
<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	

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

#### 5.3.1. Environmental release and exposure: Industrial use of processing aids in processes and products, not becoming part of articles (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0,00150 mg/L	0,005
Marine water	0,000145 mg/L	< 0,000
Freshwater sediment	0,0160 mg/kg wet weight	0,006
Marine sediment	0,00156 mg/kg wet weight	0,001
Soil	0,0112 mg/kg wet weight	0,006
Sewage treatment plant	0,00866 mg/L	0,001

#### 5.3.2. 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
Air	0,01 kg/day	
Waste	0,01 kg/day	

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Soil	0 kg/day	
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### 5.3.3. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	14 ppm	0,78
dermal	systemic	long-term	27,43 mg/kg bw/day	0,15
combined routes				0,93

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

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### ES 6: Use in coatings; Consumer uses (SU21).

#### 6.1. 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
<b>CS 2</b>	<b>Wide dispersive indoor use of reactive substances in open systems</b>	ERC8b
Consumer		
<b>CS 3</b>	Adhesives, sealants	PC1
<b>CS 4</b>	Coatings and paints, thinners, paint removers	PC9a
<b>CS 5</b>	Fillers, putties, plasters, modelling clay	PC9b
<b>CS 6</b>	Finger paints	PC9c
<b>CS 7</b>	Non-metal surface treatment products	PC15
<b>CS 8</b>	Ink and toners	PC18
<b>CS 9</b>	Leather treatment products	PC23
<b>CS 10</b>	Lubricants, greases, release products	PC24
<b>CS 11</b>	Polishes and wax blends	PC31
<b>CS 12</b>	Textile dyes, finishing and impregnating products; including bleaches and other processing aids	PC34

#### 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	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 10 hPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	

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Annual amount per site	:	130 kg
Daily amount per site	:	370 kg
Regional use tonnage	:	270000 kg
Release type	:	Continuous release
Emission days	:	365
<b>Conditions and measures related to treatment of waste (including article waste)</b>		
Waste treatment	:	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

### 6.2.2. Control of environmental exposure: Wide dispersive indoor use of reactive substances in open systems (ERC8b)

<b>Product (article) characteristics</b>		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Vapour pressure	:	10 hPa
Temperature	:	20 °C
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>		
Annual amount per site	:	130 kg
Daily amount per site	:	370 kg
Regional use tonnage	:	270000 kg
Release type	:	Continuous release
Emission days	:	365
<b>Conditions and measures related to treatment of waste (including article waste)</b>		
Waste treatment	:	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

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Local marine water dilution factor	:	100
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### 6.2.3. Control of consumer exposure: Adhesives, sealants (PC1)

Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per use	: 0,009 kg
Use frequency	: 365 days/year
Other conditions affecting consumers exposure	
Room size	: 20 m <sup>3</sup>

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

Product (article) characteristics	
Covers concentrations up to 0,5 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 2,760 kg
Use frequency	: 4 days/year
Other conditions affecting consumers exposure	
Room size	: 20 m <sup>3</sup>

### 6.2.5. Control of consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Product (article) characteristics	
Covers concentrations up to 2 %	

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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>	
Amount used per event	: 0,085 kg
Use frequency	: 12 days/year
<b>Other conditions affecting consumers exposure</b>	
Room size	: 20 m3

### 6.2.6. Control of consumer exposure: Finger paints (PC9c)

<b>Product (article) characteristics</b>	
Covers concentrations up to 1 %	
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>	
Amount used per event	: 0,001 kg
Use frequency	: 365 days/year
<b>Other conditions affecting consumers exposure</b>	
Room size	: 20 m3

### 6.2.7. Control of consumer exposure: Non-metal surface treatment products (PC15)

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,5 %	
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>	
Amount used per event	: 2,760 kg
Use frequency	: 4 days/year

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Other conditions affecting consumers exposure	
Room size	: 20 m <sup>3</sup>

### 6.2.8. Control of consumer exposure: Ink and toners (PC18)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,004 kg
Use frequency	: 365 days/year

### 6.2.9. Control of consumer exposure: Leather treatment products (PC23)

Product (article) characteristics	
Covers concentrations up to 25 %	
Physical form of product	: Liquid
Vapour pressure	: 0,5 kPa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,056 kg
Use frequency	: 29 days/year

### 6.2.10. Control of consumer exposure: Lubricants, greases, release products (PC24)

Product (article) characteristics	
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>	
Amount used per event	: 2,200 kg
Use frequency	: 4 days/year
<b>Other conditions affecting consumers exposure</b>	
Room size	: 34 m <sup>3</sup>

### 6.2.11. Control of consumer exposure: Polishes and wax blends (PC31)

<b>Product (article) characteristics</b>	
Covers concentrations up to 10 %	
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>	
Amount used per event	: 0,142 kg
Use frequency	: 29 days/year
<b>Other conditions affecting consumers exposure</b>	
Room size	: 20 m <sup>3</sup>

### 6.2.12. Control of consumer exposure: Textile dyes, finishing and impregnating products; including bleaches and other processing aids (PC34)

<b>Product (article) characteristics</b>	
Covers concentrations up to 10 %	
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>	
Amount used per event	: 0,115 kg
Use frequency	: 365 days/year
<b>Other conditions affecting consumers exposure</b>	

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Room size	: 20 m <sup>3</sup>
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### 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
Air	985 kg/day	
Waste	10 kg/day	
Soil	5 kg/day	

#### 6.3.2. Environmental release and exposure: Wide dispersive indoor use of reactive substances in open systems (ERC8b)

Release route	Release rate	Release estimation method
Air	985 kg/day	
Waste	10 kg/day	
Soil	5 kg/day	

#### 6.3.3. Consumer exposure: Adhesives, sealants (PC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1,55 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,59
inhalative	systemic	long-term	5,525 mg/m <sup>3</sup>	

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,01
inhalative	systemic	long-term	0,126 mg/m <sup>3</sup>	

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### 6.3.5. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,01
inhalative	systemic	long-term	0,176 mg/m <sup>3</sup>	

### 6.3.6. Consumer exposure: Finger paints (PC9c)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	2,21 mg/kg dry weight	
oral	systemic	long-term	1,35 mg/kg dry weight	
combined routes				0,86
inhalative	systemic	long-term	0 mg/m <sup>3</sup>	

### 6.3.7. Consumer exposure: Non-metal surface treatment products (PC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,01
inhalative	systemic	long-term	0,126 mg/m <sup>3</sup>	

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1,04 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,70
inhalative	systemic	long-term	10,179 mg/m <sup>3</sup>	

### 6.3.9. Consumer exposure: Leather treatment products (PC23)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	3,26 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,07
inhalative	systemic	long-term	0,607 mg/m <sup>3</sup>	

### 6.3.10. Consumer exposure: Lubricants, greases, release products (PC24)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,74 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,01
inhalative	systemic	long-term	0,044 mg/m <sup>3</sup>	

### 6.3.11. Consumer exposure: Polishes and wax blends (PC31)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,50 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,07
inhalative	systemic	long-term	0,903 mg/m <sup>3</sup>	

### 6.3.12. Consumer exposure: Textile dyes, finishing and impregnating products; including bleaches and other processing aids (PC34)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,12 mg/kg dry weight	
oral	systemic	long-term	0 mg/kg dry weight	
combined routes				0,60
inhalative	systemic	long-term	8,797 mg/m <sup>3</sup>	

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

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