



## SAFETY DATA SHEET A00107

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

#### 1.1. Product identifier

**Product name** A00107

**Product number** FP-000116, FP-000118, FP-000120, FP-000122, FP-000125, FP-001618, FP-000121, A00107

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

**Identified uses** Adhesive.

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** APOLLO CHEMICALS LTD  
SANDY WAY  
AMINGTON INDUSTRIAL ESTATE  
TAMWORTH  
STAFFS  
B77 4DS  
T: +44 (0) 1827 54281  
F: +44 (0) 1827 53030  
E: compliance@apollo.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** +44 01827 69662 (NOT 24HRS - 8am-5pm mon-fri )

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373

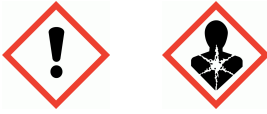
**Environmental hazards** Not Classified

**Human health** Product has a defatting effect on skin. Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Environmental** The product will harden into a solid mass in contact with water and moisture. The resultant material is not biodegradable.

**Physicochemical** Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

#### 2.2. Label elements

**A00107****Hazard pictograms****Signal word**

Danger

**Hazard statements**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

EUH204 Contains isocyanates. May produce an allergic reaction.  
 P260 Do not breathe vapour/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P281 Use personal protective equipment as required.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P313 Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.  
 RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
 RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
 RCH004c This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

**Supplemental label information**

EUH204 Contains isocyanates. May produce an allergic reaction.

**Contains**

DICHLOROMETHANE, DIPHENYLMETHANE-4,4'-DI-ISOCYANATE, ETHYL ACETATE, TRIS(P-ISOCYANATOPHENYL)THIOPHOSPHATE

**2.3. Other hazards****SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>DICHLOROMETHANE</b>		<b>60-100%</b>
CAS number: 75-09-2	EC number: 200-838-9	REACH registration number: 01-2119480404-41-0007
<b>Classification</b>		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Carc. 2 - H351		
STOT SE 3 - H336		

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<b>DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</b>			<b>10-30%</b>
CAS number: 101-68-8	EC number: 202-966-0	REACH registration number: 01-2119457014-47-0000	
<b>Classification</b>			
Acute Tox. 4 - H332			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
Resp. Sens. 1 - H334			
Skin Sens. 1 - H317			
Carc. 2 - H351			
STOT SE 3 - H335			
STOT RE 2 - H373			
<b>ETHYL ACETATE</b>			<b>1-5%</b>
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-0017	
<b>Classification</b>			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
STOT SE 3 - H336			
<b>TRIS(P-ISOCYANATOPHENYL)THIOPHOSPHATE</b>			<b>&lt;1%</b>
CAS number: 4151-51-3	REACH registration number: 01-2119948848-16-0000		
<b>Classification</b>			
Resp. Sens. 1 - H334			

The full text for all hazard statements is displayed in Section 16.

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

<b>General information</b>	Remove affected person from source of contamination.
<b>Inhalation</b>	Move affected person to fresh air at once.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Vapours may cause drowsiness and dizziness. Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause chemical burns in mouth and throat.

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**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** Severe irritation, burning and tearing.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** The product is non-combustible. Toxic gases or vapours. No unusual fire or explosion hazards noted.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

### **5.3. Advice for firefighters**

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material.

### **6.4. Reference to other sections**

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Usage precautions** Vapours may accumulate on the floor and in low-lying areas. Avoid inhalation of vapours and spray/mists.

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

**Storage precautions** Keep away from heat, sparks and open flame. Store in closed original container at temperatures between 5°C and 25°C.

**Storage class** Chemical storage.

### **7.3. Specific end use(s)**

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**Specific end use(s)**                      The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **DICHLOROMETHANE**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 1060 mg/m<sup>3</sup>

Sk

##### **DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)

##### **ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

**Ingredient comments**                      WEL = Workplace Exposure Limits

#### DICHLOROMETHANE (CAS: 75-09-2)

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
<b>DNEL</b>	Consumer - Dermal; Short term systemic effects: 353 mg/m <sup>3</sup> Workers - Dermal; Short term systemic effects: 706 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.54 mg/l - Sediment (Freshwater); 4.47 mg/kg - Intermittent release; 0.27 mg/l - Sediment (Marinewater); 1.61 mg/kg - marine water; 0.194 mg/l - STP; 26 mg/l - Soil; 0.583 mg/kg

#### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

<b>DNEL</b>	Workers - Inhalation; Short term systemic effects: 0.1 mg/m <sup>3</sup> Workers - Dermal; Short term local effects: 28.7 mg/cm <sup>2</sup> Workers - Inhalation; Short term local effects: 0.1 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 0.05 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 0.05 mg/m <sup>3</sup> Consumer - Dermal; Short term systemic effects: 25 mg/kg bw/day Workers - Dermal; Short term systemic effects: 50 mg/kg bw/day Consumer - Oral; Short term systemic effects: 20 mg/kg bw/day Consumer - Dermal; Short term local effects: 17.2 mg/cm <sup>2</sup> Consumer - Inhalation; Short term local effects: 0.05 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 0.025 mg/m <sup>3</sup> Consumer - Inhalation; Long term local effects: 0.025 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 0.05 mg/m <sup>3</sup>
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<b>PNEC</b>	- marine water; 0.1 mg/l - STP; 1 mg/l - Fresh water; 1 mg/l - Soil; 1 mg/kg
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**ETHYL ACETATE (CAS: 141-78-6)**

<b>DNEL</b>	Workers - Inhalation; Short term systemic effects: 1468 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 1468 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 734 mg/m <sup>3</sup> Consumer - Inhalation; Short term local effects: 374 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 734 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 734 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 367 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day Consumer - Inhalation; Long term local effects: 367 mg/m <sup>3</sup>
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<b>PNEC</b>	- Fresh water; 0.26 mg/l - marine water; 0.026 mg/l - Intermittent release; 1.65 mg/l - Sediment (Freshwater); 1.25 mg/kg - Sediment (Marinewater); 0.125 mg/kg - Soil; 0.24 mg/kg - STP; 650 mg/l
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**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

The following protection should be worn: Chemical splash goggles or face shield.

**Hand protection**

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Viton rubber (fluoro rubber).

**Other skin and body protection**

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

**Hygiene measures**

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: ABEK2-P3

**Environmental exposure controls**

Keep container tightly sealed when not in use.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

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<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	39-40C°C @
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.26
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Kinematic viscosity > 20.5 mm <sup>2</sup> /s.
<b>Explosive properties</b>	Not available.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not available.
<b>Comments</b>	Information given is applicable to the product as supplied.

**9.2. Other information**

<b>Other information</b>	No information required.
<b>Refractive index</b>	Not available.
<b>Particle size</b>	Not available.
<b>Molecular weight</b>	Not available.
<b>Volatility</b>	Not available.
<b>Saturation concentration</b>	Not available.
<b>Critical temperature</b>	Not available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

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**Stability** Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** Not applicable. Not relevant.

**10.4. Conditions to avoid**

**Conditions to avoid** Avoid freezing.

**10.5. Incompatible materials**

**Materials to avoid** Flammable/combustible materials. Acids - oxidising. Strong alkalis.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - oral**

**ATE oral (mg/kg)** 2,531.65

**Acute toxicity - inhalation**

**ATE inhalation (vapours mg/l)** 61.11

**Inhalation** Harmful by inhalation.

**Ingestion** Harmful if swallowed.

**Skin contact** May be harmful in contact with skin.

**Eye contact** Irritating.

**Toxicological information on ingredients.****DICHLOROMETHANE**

**Toxicological effects** The toxicity of this substance has been assessed during REACH registration.

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rat

**ATE oral (mg/kg)** 2,000.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rat

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 86.0

**Species** Rat

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<b>ATE inhalation (vapours mg/l)</b>	86.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Irritating to skin. REACH dossier information.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Positive.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>IARC carcinogenicity</b>	IARC Group 2B Possibly carcinogenic to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No evidence of reproductive toxicity in animal studies.
<b>Reproductive toxicity - development</b>	No evidence of reproductive toxicity in animal studies.

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	10,000.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	10,000.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	9,400.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	9,400.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	0.31
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	11.0
<b><u>Carcinogenicity</u></b>	
<b>IARC carcinogenicity</b>	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

**A00107****ETHYL ACETATE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,100.0

**Species** Mouse

**ATE oral (mg/kg)** 4,100.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 20,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 20,000.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 30.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 30.0

**SECTION 12: Ecological information****12.1. Toxicity****Ecological information on ingredients.****DICHLOROMETHANE****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 193 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 48 hours: 97 mg/l, Fundulus heteroclitus

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 27 mg/l, Daphnia magna  
LC<sub>50</sub>, 48 hours: 109 mg/l, Palaemonetes pugio

**Acute toxicity - aquatic plants** NOEC, 192 hours: 550 mg/l, Microcystis aeruginosa - Algae, blue, cyanobacteria

**Acute toxicity - microorganisms** EC<sub>50</sub>, 0.67 hours: 2590 mg/l, Bacteria

**Chronic aquatic toxicity**

**Chronic toxicity - fish early life stage** NOEC, 28 days: 83 mg/l, Pimephales promelas (Fat-head Minnow)

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >1000 mg/l, Marinewater fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 24 hours: >1000 mg/l, Daphnia magna

**Chronic aquatic toxicity**

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**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: >10 mg/l, Daphnia magna

**ETHYL ACETATE****Acute aquatic toxicity**

**Acute toxicity - fish** EC<sub>50</sub>, 48 hours: 610 mg/l, Marinewater fish  
LC<sub>50</sub>, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 11.5 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 48 hours: 5600 mg/l, Freshwater algae

**12.2. Persistence and degradability****12.3. Bioaccumulative potential**

**Partition coefficient** Not available.

**Ecological information on ingredients.****DICHLOROMETHANE**

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** Not available.

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

**Partition coefficient** log Pow: 4.51

**ETHYL ACETATE**

**Bioaccumulative potential** BCF: 30,

**Partition coefficient** Not available.

**12.4. Mobility in soil****Ecological information on ingredients.****DICHLOROMETHANE**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**ETHYL ACETATE**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Ecological information on ingredients.****DICHLOROMETHANE**

**A00107**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**ETHYL ACETATE**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects** Not applicable.

**Ecological information on ingredients.****DICHLOROMETHANE**

**Other adverse effects** Not applicable.

**ETHYL ACETATE**

**Other adverse effects** Not known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses.

**SECTION 14: Transport information****14.1. UN number**

**UN No. (ADR/RID)** 2810

**UN No. (IMDG)** 2810

**UN No. (ICAO)** 2810

**UN No. (ADN)** 2810

**14.2. UN proper shipping name**

**Proper shipping name (ADR/RID)** TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE)

**Proper shipping name (IMDG)** TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE)

**Proper shipping name (ICAO)** TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE)

**Proper shipping name (ADN)** TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE)

**14.3. Transport hazard class(es)**

**ADR/RID class** 6.1

**ADR/RID classification code** T1

**ADR/RID label** 6.1

**IMDG class** 6.1

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ICAO class/division 6.1

ADN class 6.1

**Transport labels****14.4. Packing group**

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

EmS F-A, S-A

ADR transport category 2

Hazard Identification Number (ADR/RID) 60

Tunnel restriction code (E)

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations** The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**Guidance** Approved Classification and Labelling Guide (Sixth edition) L131.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

Issued by Compliance

Revision date 21/02/2020

Revision 23

Supersedes date 03/12/2019

SDS status Approved.

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<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
<b>Store Between</b>	Store Between 5'c - 25'c
<b>Contains SVHC</b>	NO

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**AkzoNobel**

## METHYLENE CHLORIDE (stabilizer: Amylene)

Version 1      Revision Date 20.11.2012      Print Date 03.01.2014

GB / EN

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name : METHYLENE CHLORIDE (stabilizer: Amylene)

Substance name : dichloromethane (Stabilizer: Amylene)

REACH Registration Number : 01-2119480404-41-0000

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

Use of the Substance/Mixture : Specific use(s): Industrial and professional use  
Consumer use  
Refer to attached exposure scenario Annex.

Recommended restrictions on use : Paint strippers

See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

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

Company : Akzo Nobel Industrial Chemicals bv  
Stationsstraat 77  
NL 3811 MH Amersfoort  
The Netherlands

Telephone : +31334676767

Telefax : +31334676110

E-mail address : industrialchemicals.sds@akzonobel.com

#### 1.4 Emergency telephone number

Emergency telephone number : AkzoNobel Chemicals-Deventer-NL: +31 570 679211

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, 2, H315

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Eye irritation, 2, H319  
Carcinogenicity, 2, H351  
Specific target organ toxicity - single exposure, 3, Respiratory system, H335  
, Central nervous system, H336  
Specific target organ toxicity - repeated exposure, 2, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Classification (67/548/EEC, 1999/45/EC)

Carcinogenic Category 3, Xn, R40

For the full text of the R-phrases mentioned in this Section, see Section 16.

## 2.2 Label elements

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

Symbol(s)



Signal word

: Warning

Hazard statements

: H315  
H319  
H335  
H336  
H351  
H373

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**  
P260  
  
P264  
P280  
  
**Response:**  
P308 + P313  
  
**Storage:**  
P403 + P233  
  
**Disposal:**  
P501

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
  
IF exposed or concerned: Get medical advice/ attention.  
  
Store in a well-ventilated place. Keep container tightly closed.  
  
Dispose of contents/ container to an approved waste disposal plant.

For the full list of P-statements please see section 16.

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

Dichloromethane

75-09-2

## 2.3 Other hazards

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No further data available.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Formula : CH<sub>2</sub>Cl<sub>2</sub>

#### Hazardous substance

Chemical Name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Classification (67/548/EEC)	Concentration [%]
Dichloromethane		75-09-2 200-838-9 01- 2119480404- 41	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335, H336 STOT RE 2; H373	Xi; R36/37/38 Carc.Cat.3; R40 R67	99.5

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the R-phrases mentioned in this Section, 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.
- If inhaled : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.  
Give oxygen or artificial respiration if needed.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If skin irritation persists, call a physician.
- In case of eye contact : Remove contact lenses.  
Rinse with plenty of water.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Obtain medical attention.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Induce vomiting, but only if victim is fully conscious.  
Obtain medical attention.

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

- Symptoms : Nausea  
Vomiting  
Fatigue

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Dizziness  
Headache  
Shortness of breath

Risks : Later control for pneumonia and lung oedema.  
May cause cardiac arrhythmia.  
Respiratory disorders

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

Treatment : Treat symptomatically.  
Do not give drugs from adrenaline-ephedrine group.

---

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during firefighting / Specific hazards arising from the chemical : Do not allow run-off from fire fighting to enter drains or water courses.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Hydrogen chloride  
Phosgene

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions : Wear respiratory protection.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up / Methods for containment : Soak up with inert absorbent material.  
Unsuitable material for picking up:  
Earth  
Sand

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Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

Additional advice : For personal protection see section 8.

---

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
Vapours are heavier than air and may spread along floors.  
Do not burn, or use a cutting torch on, the empty drum.

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

Requirements for storage areas and containers : Prevent unauthorized access.  
Keep in a well-ventilated place.

Other data : Suitable container and packaging materials for safe storage  
Stainless steel  
Carbon steel

### 7.3 Specific end use(s)

Specific use(s) : Refer to attached exposure scenario Annex.

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dichloromethane	75-09-2	TWA	100 ppm 350 mg/m <sup>3</sup>	2007-08-01	GB EH40	
	Further information	:	Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	300 ppm 1,060 mg/m <sup>3</sup>	2007-08-01	GB EH40	
	Further information	:	Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

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STEL: Short term exposure limit  
TWA: Time Weighted Average (TWA)

## Component: Dichloromethane

DNEL/DMEL : Workers  
Inhalation  
Acute systemic effects  
706 mg/m<sup>3</sup>

Workers  
Inhalation  
Long-term systemic effects  
353 mg/m<sup>3</sup>

Workers  
Skin contact  
Long-term systemic effects  
4750 mg/kg bw/day

Consumers  
Inhalation  
Acute systemic effects  
353 mg/m<sup>3</sup>

Consumers  
Inhalation  
Long-term systemic effects  
88.3 mg/m<sup>3</sup>

Consumers  
Skin contact  
Long-term systemic effects  
2395 mg/kg bw/day

Consumers  
Ingestion  
Long-term systemic effects  
0.06 mg/kg bw/day

## Component: Dichloromethane

PNEC : Fresh water  
0.54 mg/l

Marine water  
0.194 mg/l

Intermittent water  
0.27 mg/l

Sewage treatment plant

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26 mg/l

Fresh water sediment  
4.47 mg/kg

Marine sediment  
1.61 mg/kg

Soil  
0.583 mg/kg

## 8.2 Exposure controls

### Engineering Controls

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

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

Hand protection : Fluorinated rubber  
Break through time: > 120 min  
Glove thickness: > 0.4 mm

Fluorinated rubber  
Break through time: > 480 min  
Glove thickness: > 0.8 mm

PVA  
Break through time: > 480 min  
Glove thickness: > 0.8 mm

butyl-rubber  
Break through time: > 10 min  
Glove thickness: > 0.4 mm

Protective gloves complying with EN 374.

Eye protection : Safety glasses with side-shields conforming to EN166  
or  
Face-shield

Skin and body protection : Wear suitable protective clothing.  
Boots

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

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If the product contaminates rivers and lakes or drains inform respective authorities.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form	: Clear liquid
Colour	: colourless
Odour	: sweet
Odour Threshold	: no data available

#### Safety data

pH	: not applicable
Melting point	: ca. -97 °C at 1,013 hPa
Boiling point	: 40 °C at 1,013 hPa
Flash point	: does not flash
Evaporation rate	: no data available
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: 13 %(V)
Upper explosion limit	: 22 %(V)
Vapour pressure	: 476 hPa at 20 °C 584 hPa at 25 °C 709 hPa at 30 °C
Relative vapor density	: 2.93 at 25 °C
Relative density	: 1.359 at 20 °C
Water solubility	: ca. 20 g/l at 20 °C
Solubility in other solvents	: miscible with most organic solvents
Partition coefficient: n-octanol/water	: log Pow: 1.25 at 20 °C
Auto-ignition temperature	: 605 °C at 1,013 hPa

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Decomposition temperature	: > 120 °C
Viscosity, dynamic	: 0.42 mPa.s at 25 °C
Viscosity, kinematic	: no data available
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidising.

## 9.2 Other information

Peroxide content	: not applicable
------------------	------------------

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid	: Avoid elevated temperatures
---------------------	-------------------------------

### 10.5 Incompatible materials

Materials to avoid	: Zinc Magnesium Finely divided aluminium Strong bases Alkali metals Strong oxidizing agents Alkaline earth metals
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	: Hydrogen chloride Carbon monoxide Phosgene
Thermal decomposition	: > 120 °C

---

## SECTION 11: TOXICOLOGICAL INFORMATION

### Product information:

#### Hazard Summary

Inhalation	: Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.
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Thermal decomposition can lead to release of irritating gases and vapours.

Inhalation may cause central nervous system effects.

- Skin : Causes skin irritation.
- Eyes : Causes serious eye irritation.
- Ingestion : May be harmful if swallowed.

## 11.1 Information on toxicological effects

### Toxicology data for the components:

#### Toxicology Assessment

##### Dichloromethane

CMR effects : Carcinogenicity: Limited evidence of carcinogenicity in animal studies

#### Test result

##### Dichloromethane

- Acute oral toxicity : LD50: > 2,000 mg/kg  
Species: rat  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50: 86 mg/l  
Exposure time: 4 h  
Species: rat
- Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: rat  
Method: OECD Test Guideline 402
- Skin irritation : Species: rabbit  
Irritating to skin.  
Method: OECD Test Guideline 404
- Eye irritation : Species: rabbit  
Irritating to eyes.
- Sensitisation : Species: mouse  
Not sensitizing.  
Method: OECD Guide-line 429 - Skin Sensitization: Local Lymph Node Assay
- Repeated dose toxicity : Species: rat  
Application Route: Oral  
Exposure time: 104 weeks ()  
NOEL: 6  
Method: OECD Test Guideline 453
- Species: rat  
Application Route: Inhalation  
Exposure time: 104 weeks ()  
NOEL: 200

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Method: OECD Test Guideline 453

Germ cell mutagenicity

Genotoxicity in vitro

: In vitro cytogenetic test in CHO cells:  
positive  
Method: OECD guide-line 476 - In vitro Mammalian Cell Gene Mutation Test

In vitro gene mutation study in mammalian cells  
negative  
Method: Other guidelines

Ames test  
positive  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Genotoxicity in vivo

: Chromosome aberration test in vivo  
Species: mouse  
Method: Mutagenicity (micronucleus test)  
negative

Reproductive toxicity/Fertility

: Method: OECD Test Guideline 416  
Species: rat  
Application Route: Inhalation

Reproductive toxicity/Development/Teratogenicity

: Method: OECD Test Guideline 414  
Species: mouse  
Application Route: Inhalation

Method: OECD Test Guideline 414  
Species: rat  
Application Route: Inhalation

Target Organ Systemic Toxicant - Single exposure

: May cause respiratory irritation.  
May cause drowsiness or dizziness.

Target Organ Systemic Toxicant - Repeated exposure

: Species: rat  
Application Route: Oral  
Exposure time: 104 weeks ()  
NOEL: 6  
Method: OECD Test Guideline 453  
Species: rat  
Application Route: Inhalation  
Exposure time: 104 weeks ()  
NOEL: 200  
Method: OECD Test Guideline 453  
Exposure routes: Inhalation  
Target Organs: Blood, Central nervous system  
May cause damage to organs through prolonged or repeated exposure.  
Exposure routes: Ingestion  
Target Organs: Blood, Liver

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May cause damage to organs through prolonged or repeated exposure.

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## SECTION 12: ECOLOGICAL INFORMATION

### Product information:

#### Ecotoxicology Assessment

Additional ecological information : None known.

### 12.1 Toxicity

#### Components:

#### Ecotoxicology Assessment

##### Dichloromethane

Results of PBT assessment : Not classified as PBT or vPvB

#### Test result

##### Dichloromethane

Toxicity to fish : LC50: 193 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
flow-through test Method: Other guidelines

LC50: 97 mg/l  
Exposure time: 48 h  
Species: Fundulus heteroclitus  
Marine water Method: Other guidelines

Toxicity to daphnia and other aquatic invertebrates : LC50: 27 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Fresh water Method: EPA-660/3-75-009

LC50: 109 mg/l  
Exposure time: 48 h  
Species: Palaemonetes pugio  
Marine water Method: Other guidelines

Toxicity to algae : NOEC: 550 mg/l  
Exposure time: 192 h  
Species: Microcystis aeruginosa - Algae, blue, cyanobacteria  
Cell multiplication inhibition test

Toxicity to bacteria : EC50: 2,590 mg/l  
Exposure time: 0.67 h  
Respiration inhibition  
Method: OECD Guide-line 209

Toxicity to fish (Chronic toxicity) : NOEC: 83 mg/l  
Exposure time: 28 d  
Species: Pimephales promelas (fathead minnow)  
flow-through test  
Method: Other guidelines

### 12.2 Persistence and degradability

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## Components:

### Dichloromethane

Biodegradability : aerobic  
Readily biodegradable.  
66 %  
Method: OECD Test Guideline 301D

## 12.3 Bioaccumulative potential

### Components:

#### Dichloromethane

Bioaccumulation : No bioaccumulation is to be expected (log Pow <= 4).

## 12.4 Mobility in soil

### Components:

#### Dichloromethane

Mobility : Medium: Soil  
no data available

## 12.5 Results of PBT and vPvB assessment

### Components:

#### Dichloromethane

PBT and vPvB assessment : Not classified as PBT or vPvB

## 12.6 Other adverse effects

### Components:

#### Dichloromethane

Biochemical Oxygen Demand (BOD) : no data available

---

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
Where possible recycling is preferred to disposal or incineration.

Contaminated packaging : Dispose of contents/container in accordance with local regulation.

---

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR : 1593  
RID : 1593  
IMDG : 1593  
IATA : 1593

### 14.2 Proper shipping name

ADR : DICHLOROMETHANE  
RID : DICHLOROMETHANE

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**IMDG** : DICHLOROMETHANE  
**IATA** : Dichloromethane

## 14.3 Transport hazard class

**ADR** : 6.1  
**RID** : 6.1  
**IMDG** : 6.1  
**IATA** : 6.1

## 14.4 Packing group

**ADR**  
Packaging group : III  
Classification Code : T1  
Hazard identification No : 60  
Labels : 6.1  
Tunnel restriction code : (E)  
**RID**  
Packaging group : III  
Classification Code : T1  
Hazard identification No : 60  
Labels : 6.1  
**IMDG**  
Packaging group : III  
Labels : 6.1  
EmS Number : F-A, S-A  
**IATA**  
Packing instruction (cargo aircraft) : 663  
Packaging group : III  
Labels : 6.1

## 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no  
**RID**  
Environmentally hazardous : no  
**IMDG**  
Marine Pollutant : no  
**IATA**  
Environmentally hazardous : no

## 14.6 Special precautions for user

Handle with care.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

---

## SECTION 15: REGULATORY INFORMATION

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

Major Accident Hazard : 96/82/EC Update: 2003  
Legislation Directive 96/82/EC does not apply

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Water contaminating class : WGK 2 water endangering  
(Germany)

## Notification status

CH INV : YES. The formulation contains substances listed on the Swiss Inventory  
US.TSCA : YES. All chemical substances in this product are either listed on the  
TSCA Inventory or in compliance with a TSCA Inventory exemption.  
DSL : YES. All components of this product are on the Canadian DSL.  
AICS : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

## 15.2 Chemical Safety Assessment

Dichloromethane : A Chemical Safety Assessment has been carried out for this  
substance.

---

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

### Full text of R-phrases referred to under sections 2 and 3

R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Limited evidence of a carcinogenic effect.  
R67 Vapours may cause drowsiness and dizziness.

### Full list of P-statements.

#### Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and  
understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

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P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.

## Storage:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

## Disposal:

P501	Dispose of contents/ container to an approved waste disposal plant.
------	---

## Explanations for possible abbreviations mentioned in section 2

PBT	: PBT: Persistent, bioaccumulative and toxic.
vPvB	: vPvB: Very persistent and very bioaccumulative.
OEL	: OEL: Occupational exposure limit.

## Notification status explanation

CH INV	Switzerland. New notified substances and declared preparations
US.TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances (METI)
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

## Further information

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 :**

- 1. Manufacture, Recycling, Distribution of substance**
- 2. Intermediate**
- 3. Formulation & (re)packing of substances and mixtures**
- 4. Use as Process chemical**
- 5. Use in Paints/ Coatings (industrial)**
- 6. Use in cleaning agents**
- 7. Use of blowing agents in manufacture of foam**
- 8. Use in/as functional fluids (industrial)**
- 9. Use in Paints/Coatings**
- 10. Use in cleaning agents**
- 11. Use in cosmetics**
- 12. Use in agrochemicals (professional)**
- 13. Packing and repacking of formulations**
- 14. Laboratory Reagents**
- 15. Consumer use**

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## 1. Short title of Exposure Scenario: Manufacture, Recycling, Distribution of substance

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<b>Main User Groups</b>	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Sectors of end-use</b>	: SU8, SU9: Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
<b>Environmental Release Categories</b>	: ERC1: Manufacture of substances
<b>Process categories</b>	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15: Use as laboratory reagent

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC1: Manufacture of substances

---

#### Amount used

Daily amount per site	: 8570 kg
Annual amount per site	: 2570 tonnes

#### Environment factors not influenced by risk management

Flow rate	: 18,000 m <sup>3</sup> /day
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#### Other given operational conditions affecting environmental exposure

##### Continuous use/release

Number of emission days per year	: 300
Emission or Release Factor: Air	: 0.000060 %
Emission or Release Factor: Water	: 0.000369 %
Emission or Release Factor: Soil	: 0 %
Remarks	: Indoor use, Used in closed system

#### Technical conditions and measures / Organizational measures

Air	: No air emission controls required; required removal efficiency is 0%.
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Water	: Treat on-site wastewater (prior to receiving water discharge). (Effectiveness (of a measure): 93.5 %)
Soil	: Soil emission controls are not applicable as there is no direct release to soil.
Remarks	: Common practices vary across sites thus conservative process release estimates used.
Water	: Prevent discharge of undissolved substance to or recover from wastewater.

## Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	: Sewage treatment plant
Flow rate of sewage treatment plant effluent	: 63,072 m <sup>3</sup> /day
Percentage removed from waste water	: 93.5 %
Remarks	: Domestic sewage treatment is not assumed.

---

## 2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

---

### Product characteristics

Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

---

### Product characteristics

Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa

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## Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Handle substance within a closed system.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
- Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

## Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

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## Product characteristics

**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

## Frequency and duration of use

**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

---

## Product characteristics

**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

## Frequency and duration of use

**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Drain or remove substance from equipment prior to break-in or maintenance. (Effectiveness (of a measure): 80 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

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Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.7 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

---

### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation.  
(Effectiveness (of a measure): 97 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.8 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

---

### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation.  
(Effectiveness (of a measure): 90 %)

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## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.9 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

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### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 3. Exposure estimation and reference to its source

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### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC1	EUSES		Fresh water		5.17 µg/L	0.00957
ERC1	EUSES		Marine water		0.416 µg/L	0.00214
ERC1	EUSES		Fresh water sediment		9.3 µg/kg wwt	0.00957
ERC1	EUSES		Marine sediment		0.749 µg/kg wwt	0.00214
ERC1	EUSES		Soil		0.126 µg/kg	0.000245
ERC1	EUSES		Groundwater		0.0498 µg/L	0.000092

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ERC1	EUSES		Sewage treatment plant		0.883 µg/L	0.000034
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## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	0.01 ppm	0.0001
PROC1	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC2	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC2	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.27 mg/kg/day	0.00006
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC8a	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC8a	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	2.74 mg/kg/day	0.0006
PROC8b	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	4.5 ppm	0.05
PROC8b	ECETOC TRA		Chronic	1.37	0.0003

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	v2.0 Worker		dermal systemic exposure	mg/kg/day	
PROC9	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	20 ppm	0.2
PROC9	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC15	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC15	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001

ERC1: Manufacture of substances

PROC1: Use in closed process, no likelihood of exposure

PROC15: Use as laboratory reagent

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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## 1. Short title of Exposure Scenario: Intermediate

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<b>Main User Groups</b>	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Sectors of end-use</b>	: SU8, SU9: Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
<b>Environmental Release Categories</b>	: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)
<b>Process categories</b>	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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#### Amount used

Daily amount per site	: 8567 kg
Annual amount per site	: 2570 tonnes

#### Environment factors not influenced by risk management

Flow rate	: 18,000 m <sup>3</sup> /day
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#### Other given operational conditions affecting environmental exposure

##### Continuous use/release

Number of emission days per year	: 300
Emission or Release Factor: Air	: 0.0005 %
Emission or Release Factor: Water	: 0.01 %
Emission or Release Factor: Soil	: 0 %
Remarks	: Indoor use, Used in closed system

#### Technical conditions and measures / Organizational measures

Air	: No air emission controls required; required removal efficiency is 0%.
Water	: Ensure all waste water is collected and treated via a WWTP. (Effectiveness (of a measure): 93.5 %)

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- Soil** : Soil emission controls are not applicable as there is no direct release to soil.
- Water** : Prevent discharge of undissolved substance to or recover from wastewater.

## Conditions and measures related to municipal sewage treatment plant

- Type of Sewage Treatment Plant** : Municipal sewage treatment plant
- Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day
- Percentage removed from waste water** : 93.5 %

---

## 2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

---

### Product characteristics

- Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
- Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks** : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

---

### Product characteristics

- Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
- Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

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

## Technical conditions and measures

Handle substance within a closed system.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

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## Frequency and duration of use

- Remarks
- : Covers daily exposures up to 8 hours (unless stated differently).
  - : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

---

### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
- Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

## Frequency and duration of use

- Remarks
- : Covers daily exposures up to 8 hours (unless stated differently).
  - : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Drain or remove substance from equipment prior to break-in or maintenance. (Effectiveness (of a measure): 80 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.7 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

---

### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation.  
(Effectiveness (of a measure): 97 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.8 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

---

### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

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## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC6a	EUSES		Fresh water		0.057 mg/L	0.105
ERC6a	EUSES		Marine water		0.0056 mg/L	0.029
ERC6a	EUSES		Fresh water sediment		0.102 mg/kg wet weight	0.105
ERC6a	EUSES		Marine sediment		0.01 mg/kg wet weight	0.029
ERC6a	EUSES		Soil		0.058 mg/kg dry weight	0.11
ERC6a	EUSES		Groundwater		0.012 mg/L	0.02
ERC6a	EUSES		Sewage treatment plant		0.517 mg/L	0.020

### Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	0.01 ppm	0.0001
PROC1	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC2	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC2	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.27 mg/kg/day	0.00006
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001

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PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC8a	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC8a	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	2.74 mg/kg/day	0.0006
PROC8b	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	4.5 ppm	0.05
PROC8b	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC15	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC15	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001

ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

PROC1: Use in closed process, no likelihood of exposure

PROC15: Use as laboratory reagent

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

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## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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## 1. Short title of Exposure Scenario: Formulation & (re)packing of substances and mixtures

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<b>Main User Groups</b>	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Sectors of end-use</b>	: SU 10: Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)
<b>Environmental Release Categories</b>	: ERC2: Formulation of preparations
<b>Process categories</b>	: PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15: Use as laboratory reagent

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## 2.1 Contributing scenario controlling environmental exposure for: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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**Activity** : Paint strippers

### Amount used

**Daily amount per site** : 797 kg  
**Annual amount per site** : 239 tonnes

### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Continuous use/release

**Number of emission days per year** : 300

**Emission or Release Factor: Air** : 0.025 %

**Emission or Release Factor:** : 0.02 %

#### Water

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Indoor use

### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal

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efficiency is 0%.  
**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.  
**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant  
**Flow rate of sewage treatment plant effluent** : 2,000 m3/day  
**Percentage removed from waste water** : 93.5 %

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## 2.1 Contributing scenario controlling environmental exposure for: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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**Activity** : Aerosols

### Amount used

**Daily amount per site** : 3334 kg  
**Annual amount per site** : 1000 tonnes

### Environment factors not influenced by risk management

**Flow rate** : 18,000 m3/day

### Other given operational conditions affecting environmental exposure

#### Continuous use/release

**Number of emission days per year** : 300

**Emission or Release Factor: Air** : 0.025 %

**Emission or Release Factor:** : 0.02 %

#### Water

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Indoor use

### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant  
**Flow rate of sewage treatment plant effluent** : 2,000 m3/day  
**Percentage removed from waste water** : 93.5 %

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## 2.1 Contributing scenario controlling environmental exposure for: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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**Activity** : Metal degreasers

### Amount used

**Daily amount per site** : 3933 kg  
**Annual amount per site** : 1180 tonnes

### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Continuous use/release

**Number of emission days per year** : 300

**Emission or Release Factor: Air** : 0.025 %

**Emission or Release Factor:** : 0.02 %

#### Water

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Indoor use

### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

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## 2.1 Contributing scenario controlling environmental exposure for: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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**Activity** : Coatings and paints, thinners, paint removers

### Amount used

**Daily amount per site** : 1898 kg  
**Annual amount per site** : 569 tonnes

### Environment factors not influenced by risk management

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**Flow rate** : 18,000 m3/day

## Other given operational conditions affecting environmental exposure

### Continuous use/release

**Number of emission days per year** : 300

**Emission or Release Factor: Air** : 0.01 %

**Emission or Release Factor:** : 0 %

### Water

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Indoor use

## Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m3/day

### plant effluent

**Percentage removed from waste water** : 93.5 %

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## 2.5 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

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### Product characteristics

**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

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

### Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation.  
(Effectiveness (of a measure): 90 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

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## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

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### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.7 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

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### Product characteristics

- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

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## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.8 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

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### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.9 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

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### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

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

## Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation.  
(Effectiveness (of a measure): 97 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.10 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation.  
(Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.11 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

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### Product characteristics

Concentration of the Substance : Covers the percentage of the substance in the product up

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**in Mixture/Article** to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

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

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC2	EUSES	Paint strippers	Fresh water		0.283 mg/L	0.524
ERC2	EUSES	Paint strippers	Marine water		0.0282 mg/L	0.145
ERC2	EUSES	Paint strippers	Fresh water sediment		0.509 mg/kg wet weight	0.524
ERC2	EUSES	Paint strippers	Marine sediment		0.0507 mg/kg wet weight	0.145
ERC2	EUSES	Paint strippers	Soil		0.308 mg/kg dry weight	0.599
ERC2	EUSES	Paint strippers	Groundwater		0.0639 mg/L	0.118
ERC2	EUSES	Paint strippers	Sewage treatment plant		2.78 mg/L	0.107
ERC2	EUSES	Aerosol	Fresh water		4.96 µg/L	0.00919
ERC2	EUSES	Aerosol	Marine water		4.00 µg/L	0.00206
ERC2	EUSES	Aerosol	Fresh water sediment		8.93 µg/kg wwt	0.00919
ERC2	EUSES	Aerosol	Marine sediment		0.72 µg/kg wwt	0.00206
ERC2	EUSES	Aerosol	Soil		1.29 µg/kg	0.00251
ERC2	EUSES	Aerosol	Groundwater		1.26 µg/L	0.00233
ERC2	EUSES	Aerosol	Sewage		1.06 µg/L	0.00004

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			treatment plant			
ERC2	EUSES	Metal degreasers	Fresh water		0.259 mg/L	0.480
ERC2	EUSES	Metal degreasers	Marine water		0.029 mg/L	0.133
ERC2	EUSES	Metal degreasers	Fresh water sediment		0.467 mg/kg wet weight	0.480
ERC2	EUSES	Metal degreasers	Marine sediment		0.047 mg/kg wet weight	0.133
ERC2	EUSES	Metal degreasers	Soil		0.283 mg/kg dry weight	0.550
ERC2	EUSES	Metal degreasers	Groundwater		0.059 mg/L	0.110
ERC2	EUSES	Metal degreasers	Sewage treatment plant		2.54 mg/L	0.098
ERC2	EUSES	Adhesives, sealants	Fresh water		4.85 µg/L	0.0090
ERC2	EUSES	Adhesives, sealants	Marine water		0.39 µg/L	0.0020
ERC2	EUSES	Adhesives, sealants	Fresh water sediment		8.74 µg/kg wwt	0.0090
ERC2	EUSES	Adhesives, sealants	Marine sediment		0.701 µg/kg wwt	0.0020
ERC2	EUSES	Adhesives, sealants	Soil		0.419 µg/kg	0.0073
ERC2	EUSES	Adhesives, sealants	Groundwater		0.440 µg/L	0.0008
ERC2	EUSES	Adhesives, sealants	Sewage treatment plant		0 mg/L	0

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003

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PROC8a	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC8a	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	2.74 mg/kg/day	0.0006
PROC8a	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC8a	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	2.74 mg/kg/day	0.0006
PROC8b	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	4.5 ppm	0.05
PROC8b	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC9	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	20 ppm	0.2
PROC9	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC15	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC15	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001

ERC2: Formulation of preparations

PROC15: Use as laboratory reagent

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use as Process chemical

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<b>Main User Groups</b>	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Sectors of end-use</b>	: SU5, SU9: Manufacture of textiles, leather, fur, Manufacture of fine chemicals
<b>Environmental Release Categories</b>	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
<b>Process categories</b>	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC10: Roller application or brushing PROC15: Use as laboratory reagent

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### 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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**Activity** : solvents

**Amount used**

**Daily amount per site** : 24100 kg  
**Annual amount per site** : 2410 tonnes

**Environment factors not influenced by risk management**

**Flow rate** : 18,000 m<sup>3</sup>/day

**Other given operational conditions affecting environmental exposure**

**Continuous use/release**

**Number of emission days per year** : 100

**Emission or Release Factor: Air** : 0.669 %

**Emission or Release Factor:** : 0.00154 %

**Water**

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Indoor use, Used in closed system

**Technical conditions and measures / Organizational measures**

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

**Conditions and measures related to municipal sewage treatment plant**

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Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment : 2,000 m<sup>3</sup>/day  
plant effluent  
Percentage removed from waste : 93.5 %  
water

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## 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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Activity : Extraction agents

### Amount used

Daily amount per site : 36712 kg  
Annual amount per site : 13400 tonnes

### Environment factors not influenced by risk management

Flow rate : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Continuous use/release

Number of emission days per : 365  
year  
Emission or Release Factor: Air : 0.000706 %  
Emission or Release Factor: : 0.00529 %  
Water  
Emission or Release Factor: Soil : 0 %  
Remarks : Indoor use, Used in closed system

### Technical conditions and measures / Organizational measures

Air : No air emission controls required; required removal efficiency is 0%.  
Water : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.  
Soil : Soil emission controls are not applicable as there is no direct release to soil.

### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment : 2,000 m<sup>3</sup>/day  
plant effluent  
Percentage removed from waste : 93.5 %  
water

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## 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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Activity : Extraction agents

### Amount used

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Daily amount per site : 38460 kg  
Annual amount per site : 3846 tonnes

## Environment factors not influenced by risk management

Flow rate : 18,000 m3/day

## Other given operational conditions affecting environmental exposure

### Continuous use/release

Number of emission days per year : 100

Emission or Release Factor: Air : 0.114 %

Emission or Release Factor: : 0.095 %

### Water

Emission or Release Factor: Soil : 0 %

Remarks : Indoor use, Used in closed system

## Technical conditions and measures / Organizational measures

Air : No air emission controls required; required removal efficiency is 0%.

Water : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

Soil : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m3/day

Percentage removed from waste water : 93.5 %

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## 2.4 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

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

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

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Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.6 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

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## Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation.

(Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.7 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.8 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated

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differently).

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

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.9 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

---

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 3. Exposure estimation and reference to its source

---

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES	Process	Fresh water		0.082 mg/L	0.153

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ERC4	EUSES	solvent Process solvent	Marine water		0.0082 mg/L	0.042
ERC4	EUSES	Process solvent	Fresh water sediment		0.149 mg/kg wet weight	0.153
ERC4	EUSES	Process solvent	Marine sediment		0.015 mg/kg wet weight	0.042
ERC4	EUSES	Process solvent	Soil		0.126 mg/kg dry weight	0.245
ERC4	EUSES	Process solvent	Groundwater		0.060 mg/L	0.111
ERC4	EUSES	Process solvent	Sewage treatment plant		0.776 mg/L	0.030
ERC4	EUSES	Extraction medium - large sites	Fresh water		11 µg/L	0.021
ERC4	EUSES	Extraction medium - large sites	Marine water		1.03 µg/L	0.005
ERC4	EUSES	Extraction medium - large sites	Fresh water sediment		0.020 mg/kg wet weight	0.021
ERC4	EUSES	Extraction medium - large sites	Marine sediment		0.002 mg/kg wet weight	0.005
ERC4	EUSES	Extraction medium - large sites	Soil		7.46 µg/kg wwt	0.245
ERC4	EUSES	Extraction medium - large sites	Groundwater		1.85 µg/L	0.003
ERC4	EUSES	Extraction medium - large sites	Sewage treatment plant		64 µg/L	0.0025
ERC4	EUSES	Extraction medium - small sites	Fresh water		0.185 mg/L	0.343
ERC4	EUSES	Extraction medium - small sites	Marine water		0.018 mg/L	0.093
ERC4	EUSES	Extraction medium - small sites	Fresh water sediment		0.334 mg/kg wet weight	0.343
ERC4	EUSES	Extraction medium - small sites	Marine sediment		0.033 mg/kg wet weight	0.093
ERC4	EUSES	Extraction medium - small sites	Soil		0.211 mg/kg dry weight	0.411
ERC4	EUSES	Extraction medium - small sites	Groundwater		0.053 mg/L	0.098
ERC4	EUSES	Extraction	Sewage		1.81 mg/L	0.070

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		medium - small sites	treatment plant		
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## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	0.01 ppm	0.0001
PROC1	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC2	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC2	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.27 mg/kg/day	0.00006
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC10	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC10	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	5.49 mg/kg/day	0.001
PROC15	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC15	ECETOC TRA v2.0 Worker		Chronic dermal	0.07 mg/kg/day	0.00001

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			systemic exposure		
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**ERC4: Industrial use of processing aids in processes and products, not becoming part of articles**

**PROC1: Use in closed process, no likelihood of exposure**

**PROC10: Roller application or brushing**

**PROC15: Use as laboratory reagent**

**PROC2: Use in closed, continuous process with occasional controlled exposure**

**PROC3: Use in closed batch process (synthesis or formulation)**

**PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises**

---

**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use in Paints/ Coatings (industrial)

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Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU11, SU18: Manufacture of rubber products, Manufacture of furniture
Environmental Release Categories	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Process categories	: PROC7: Industrial spraying PROC10: Roller application or brushing
Activity	: Use in coatings (paints, adhesives, sealants), industrial

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

---

Activity : Aerosols

#### Amount used

Daily amount per site : 10720 kg  
Annual amount per site : 1072 tonnes

#### Environment factors not influenced by risk management

Flow rate : 18,000 m<sup>3</sup>/day

#### Other given operational conditions affecting environmental exposure

##### Continuous use/release

Number of emission days per year : 100

Emission or Release Factor: Air : 0.95 %

Emission or Release Factor: : 1 %

##### Water

Emission or Release Factor: Soil : 0 %

Remarks : Indoor use, Used in closed system

#### Technical conditions and measures / Organizational measures

Water : Ensure all waste water is collected and treated via a WWTP.

Soil : Soil emission controls are not applicable as there is no direct release to soil.

#### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/day

Percentage removed from waste water : 93.5 %

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### 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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**Activity** : Adhesives

## Amount used

Daily amount per site : 6900 kg  
Annual amount per site : 2070 tonnes

## Environment factors not influenced by risk management

Flow rate : 18,000 m<sup>3</sup>/day

## Other given operational conditions affecting environmental exposure

### Continuous use/release

Number of emission days per year : 300

Emission or Release Factor: Air : 0.006 %

Emission or Release Factor: : 0 %

### Water

Emission or Release Factor: Soil : 0 %

Remarks : Indoor use, Used in closed system

## Technical conditions and measures / Organizational measures

Water : Ensure all waste water is collected and treated via a WWTP.

Soil : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/day

Percentage removed from waste water : 93.5 %

---

## 2.3 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

---

**Activity** : Aerosols, Paint/coatings

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

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

### Technical conditions and measures

Carry out in a vented booth provided with laminar airflow. (Effectiveness (of a measure): 95 %)

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## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

---

Activity	: Aerosols, Mould release agents
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Carry out in a vented booth provided with laminar airflow. (Effectiveness (of a measure): 95 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

Activity	: Adhesives, sealants
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of

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occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES	Aerosol	Fresh water		4.96 µg/L	0.0092
ERC4	EUSES	Aerosol	Marine water		0.40 µg/L	0.0021
ERC4	EUSES	Aerosol	Fresh water sediment		8.93 µg/kg wwt	0.0092
ERC4	EUSES	Aerosol	Marine sediment		0.72 µg/kg wwt	0.0021
ERC4	EUSES	Aerosol	Soil		0.045 mg/kg dry weight	0.087
ERC4	EUSES	Aerosol	Groundwater		0.047 mg/L	0.087
ERC4	EUSES	Aerosol	Sewage treatment plant		1.06 µg/L	0.00004
ERC4	EUSES	Adhesives	Fresh water		4.85 µg/L	0.153
ERC4	EUSES	Adhesives	Marine water		0.39 µg/L	0.042
ERC4	EUSES	Adhesives	Fresh water sediment		8.74 µg/kg wwt	0.153
ERC4	EUSES	Adhesives	Marine sediment		0.702 µg/kg wwt	0.042
ERC4	EUSES	Adhesives	Soil		2.05	0.004
ERC4	EUSES	Adhesives	Groundwater		2.15 µg/L	0.004
ERC4	EUSES	Adhesives	Sewage treatment plant		0 mg/L	0

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Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC7	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC7	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	8.57 mg/kg/day	0.002
PROC7	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC7	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	8.57 mg/kg/day	0.002
PROC10	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC10	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	5.49 mg/kg/day	0.001

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

PROC10: Roller application or brushing

PROC7: Industrial spraying

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**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use in cleaning agents

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<b>Main User Groups</b>	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Sectors of end-use</b>	: SU5, SU7, SU12, SU13, SU17: Manufacture of textiles, leather, fur, Printing and reproduction of recorded media, Manufacture of plastics products, including compounding and conversion, Manufacture of other non-metallic mineral products, e.g. plasters, cement, General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
<b>Environmental Release Categories</b>	: ERC4, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of substances in closed systems
<b>Process categories</b>	: PROC0: Other Process or activity PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC7: Industrial spraying PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring

---

## 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

---

<b>Activity</b>	: Aerosols, Metal degreasers
<b>Amount used</b>	
Daily amount per site	: 59000 kg
Annual amount per site	: 1180 tonnes
<b>Environment factors not influenced by risk management</b>	
Flow rate	: 18,000 m <sup>3</sup> /day
<b>Other given operational conditions affecting environmental exposure</b>	
Continuous use/release	
Number of emission days per year	: 20
Emission or Release Factor: Air	: 0.3 %
Emission or Release Factor: Water	: 0.0001 %
Emission or Release Factor: Soil	: 0 %
Remarks	: Indoor use, Used in closed system
<b>Technical conditions and measures / Organizational measures</b>	
Air	: No air emission controls required; required removal efficiency is 0%.

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**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m3/day

**Percentage removed from waste water** : 93.5 %

---

## 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

---

**Activity** : Paint strippers

### Amount used

**Daily amount per site** : 140500 kg

**Annual amount per site** : 2810 tonnes

### Environment factors not influenced by risk management

**Flow rate** : 18,000 m3/day

### Other given operational conditions affecting environmental exposure

#### Continuous use/release

**Number of emission days per year** : 20

**Emission or Release Factor: Air** : 0.3 %

**Emission or Release Factor: Water** : 0.0001 %

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Used in closed system

### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

## Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m3/day

**Percentage removed from waste water** : 93.5 %

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## 2.1 Contributing scenario controlling environmental exposure for: ERC7: Industrial use of substances in closed systems

---

**Activity** : Cleaning agent / functional fluid

### Amount used

**Daily amount per site** : 10720 kg

**Annual amount per site** : 1072 tonnes

### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Continuous use/release

**Number of emission days per year** : 20

**Emission or Release Factor: Air** : 0.01 %

**Emission or Release Factor:** : 0.001 %

#### Water

**Emission or Release Factor: Soil** : 0.001 %

**Remarks** : Used in closed system

### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

---

## 2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

---

**Activity** : Industrial surface cleaning, metal cleaning (vapour degreasing)

### Product characteristics

**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

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

## Technical conditions and measures

Handle substance within a closed system.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

Activity	: Raw leather cleaning
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

Activity	: Cleaning agent
Product characteristics	

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**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.7 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

**Activity** : Cleaning agent  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.8 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

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Activity	: Paint strippers
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.9 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

Activity	: Manual use as cleaning agent
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear

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gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.10 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

---

Activity	: Paint stripping / Metal cleaning
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.11 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

---

Activity	: Paint stripping / Metal cleaning
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid carrying out operation for more than 1 hour., Avoid direct skin contact with product.

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Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES	Metal degreasers	Fresh water		6.40 µg/L	0.012
ERC4	EUSES	Metal degreasers	Marine water		0.544 µg/L	0.0028
ERC4	EUSES	Metal degreasers	Fresh water sediment		12 µg/kg wwt	0.012
ERC4	EUSES	Metal degreasers	Marine sediment		0.980 µg/kg wwt	0.0028
ERC4	EUSES	Metal degreasers	Soil		2.81 µg/kg wwt	0.00546
ERC4	EUSES	Metal degreasers	Groundwater		1.51 µg/L	0.00278
ERC4	EUSES	Metal degreasers	Sewage treatment plant		16 µg/L	0.00062
ERC4	EUSES	Paint strippers	Fresh water		6.42 µg/L	0.012
ERC4	EUSES	Paint strippers	Marine water		0.564 µg/L	0.0028
ERC4	EUSES	Paint strippers	Fresh water sediment		12 µg/kg wwt	0.012
ERC4	EUSES	Paint strippers	Marine sediment		0.983 µg/kg wwt	0.0028
ERC4	EUSES	Paint strippers	Soil		2.85 µg/kg wwt	0.00553
ERC4	EUSES	Paint strippers	Groundwater		1.52 µg/L	0.00281
ERC4	EUSES	Paint strippers	Sewage treatment plant		16 µg/L	0.00062
ERC7	EUSES		Fresh water		6.52 µg/L	0.012
ERC7	EUSES		Marine water		0.556 µg/L	0.0029
ERC7	EUSES		Fresh water sediment		12.1 µg/kg wwt	0.012
ERC7	EUSES		Marine sediment		1.00 µg/kg wwt	0.0029
ERC7	EUSES		Soil		1.86 µg/kg	0.00361

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				wwt	
ERC7	EUSES		Groundwater	0.396 µg/L	0.00733
ERC7	EUSES		Sewage treatment plant	17 µg/L	0.00066

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC2	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC2	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.00006
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.34 mg/kg/day	0.00001
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.34 mg/kg/day	0.00001
PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC7	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC7	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	42.86 mg/kg/day	0.002
PROC10	ECETOC TRA v2.0 Worker		Chronic inhalation	25 ppm	0.25

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PROC10	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	27.43 mg/kg/day	0.001
PROC13	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC13	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	13.71 mg/kg/day	0.0006
PROC10	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC10	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	13.71 mg/kg/day	0.0006

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

ERC7: Industrial use of substances in closed systems

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC7: Industrial spraying

---

**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use of blowing agents in manufacture of foam

---

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU 3: Industrial Manufacturing (all)
Environmental Release Categories	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC12: Use of blowing agents in manufacture of foam

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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#### Amount used

Daily amount per site	: 3183 kg
Annual amount per site	: 955 tonnes

#### Environment factors not influenced by risk management

Flow rate	: 18,000 m <sup>3</sup> /day
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#### Other given operational conditions affecting environmental exposure

##### Continuous use/release

Number of emission days per year	: 300
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Emission or Release Factor: Air : 1 %

Emission or Release Factor: : 0.001 %

##### Water

Emission or Release Factor: Soil : 0 %

Remarks : Used in closed system

#### Technical conditions and measures / Organizational measures

Air : No air emission controls required; required removal efficiency is 0%.

Water : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

Soil : No soil emission controls required.

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## Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/day  
Percentage removed from waste water : 93.5 %

---

## 2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

---

Activity : Surface treatment

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 25 %.

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

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

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

---

Activity : Surface treatment

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 25 %.

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

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

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## Technical conditions and measures

Handle substance within a closed system.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

Activity	: Cleaning
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 25 %.
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Handle substance within a closed system.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

Activity	: Cleaning agent
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 25 %.
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	

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- Remarks** : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

---

- Activity** : Cleaning agent
- Product characteristics**
- Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 25 %.
- Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa
- Frequency and duration of use**
- Remarks** : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.7 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

---

- Activity** : Cleaning agent
- Product characteristics**
- Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 25 %.
- Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

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## Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Limit the substance content in the product to 25 %, Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.8 Contributing scenario controlling worker exposure for: PROC12: Use of blowing agents in manufacture of foam

---

- Activity : Cleaning agent
- Product characteristics
- Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 25 %.
- Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

## Frequency and duration of use

- Remarks : Covers daily exposures up to 8 hours (unless stated differently).
- : , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 3. Exposure estimation and reference to its source

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### Environment

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Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES		Fresh water		15 µg/L	0.028
ERC4	EUSES		Marine water		1.42 µg/L	0.0073
ERC4	EUSES		Fresh water sediment		27 µg/kg wwt	0.028
ERC4	EUSES		Marine sediment		2.56 µg/kg wwt	0.0073
ERC4	EUSES		Soil		0.048 mg/kg dry weight	0.093
ERC4	EUSES		Groundwater		0.040 mg/L	0.748
ERC4	EUSES		Sewage treatment plant		0.103 µg/L	0.00398

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	0.01 ppm	0.0001
PROC1	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.04 mg/kg/day	0.00001
PROC2	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	30 ppm	0.3
PROC2	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.16 mg/kg/day	0.00003
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	60 ppm	0.6
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.04 mg/kg/day	0.00001
PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	60 ppm	0.6
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal	0.82 mg/kg/day	0.0002

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			systemic exposure		
PROC8b	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	90 ppm	0.9
PROC8b	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.82 mg/kg/day	0.0002
PROC9	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	12 ppm	0.12
PROC9	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.82 mg/kg/day	0.0002
PROC12	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	60 ppm	0.6
PROC12	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.04 mg/kg/day	0.00001

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

PROC1: Use in closed process, no likelihood of exposure

PROC12: Use of blowing agents in manufacture of foam

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use in/as functional fluids (industrial)

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**Main User Groups** : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites  
**Sectors of end-use** : SU 3: Industrial Manufacturing (all)  
**Environmental Release Categories** : ERC7: Industrial use of substances in closed systems  
**Process categories** : PROC1: Use in closed process, no likelihood of exposure  
PROC2: Use in closed, continuous process with occasional controlled exposure  
PROC3: Use in closed batch process (synthesis or formulation)  
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC7: Industrial use of substances in closed systems

---

**Activity** : Aerosols

#### Amount used

**Daily amount per site** : 500 kg  
**Annual amount per site** : 10 tonnes

#### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

#### Other given operational conditions affecting environmental exposure

##### Continuous use/release

**Number of emission days per year** : 20

**Emission or Release Factor: Air** : 0.01 %

**Emission or Release Factor:** : 0.001 %

##### Water

**Emission or Release Factor: Soil** : 0.001 %

**Remarks** : Used in closed system

#### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : No soil emission controls required.

#### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste** : 93.5 %

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water

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## 2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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Activity	: Surface treatment
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

---

Activity	: Surface treatment
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Handle substance within a closed system.

### Organisational measures to prevent /limit releases, dispersion and exposure

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Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

---

Activity	: Cleaning
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Technical conditions and measures

Handle substance within a predominantly closed system provided with extract ventilation. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

Activity	: Cleaning agent
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient

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temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC7	EUSES		Fresh water		6.52 µg/L	0.012
ERC7	EUSES		Marine water		0.556 µg/L	0.0029
ERC7	EUSES		Fresh water sediment		12.1 µg/kg wwt	0.012
ERC7	EUSES		Marine sediment		1.00 µg/kg wwt	0.0029
ERC7	EUSES		Soil		1.86 µg/kg wwt	0.00361
ERC7	EUSES		Groundwater		0.396 µg/L	0.00733
ERC7	EUSES		Sewage treatment plant		17 µg/L	0.00066

### Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	0.01 ppm	0.0001
PROC1	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC2	ECETOC TRA		Chronic	50 ppm	0.5

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	v2.0 Worker		inhalation systemic exposure		
PROC2	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.27 mg/kg/day	0.00006
PROC3	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC3	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001
PROC4	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	10 ppm	0.1
PROC4	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003

ERC7: Industrial use of substances in closed systems

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

---

## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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## 1. Short title of Exposure Scenario: Use in Paints/Coatings

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<b>Main User Groups</b>	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>Sectors of end-use</b>	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>Environmental Release Categories</b>	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
<b>Process categories</b>	: PROC10: Roller application or brushing PROC11: Non industrial spraying

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

**Activity** : Aerosols

#### Amount used

**Daily amount per site** : 6.14 kg  
**Annual amount per site** : 2.24 tonnes

#### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

#### Other given operational conditions affecting environmental exposure

##### Dispersive use

**Number of emission days per year** : 365

**Emission or Release Factor: Air** : 1 %

**Emission or Release Factor:** : 1 %

##### Water

**Emission or Release Factor: Soil** : 0.01 %

#### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : No soil emission controls required.

#### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

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## 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

Activity : Adhesives

### Amount used

Daily amount per site : 11.4 kg  
Annual amount per site : 4.14 tonnes

### Environment factors not influenced by risk management

Flow rate : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Dispersive use

Number of emission days per year : 365  
Emission or Release Factor: Air : 1 %  
Emission or Release Factor: Water : 1 %  
Emission or Release Factor: Soil : 0.01 %

### Technical conditions and measures / Organizational measures

Air : No air emission controls required; required removal efficiency is 0%.  
Water : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.  
Soil : No soil emission controls required.

### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/day  
Percentage removed from waste water : 93.5 %

---

## 2.3 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

Activity : Paint/coatings, Indoor

### Product characteristics

Concentration of the Substance in Mixture/Article : Limit the substance content in the mixture to 50 %.  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

### Other operational conditions affecting workers exposure

---

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**Outdoor / Indoor** : **Indoor**  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

**Activity** : **Paint/coatings, Outdoor**  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : **Limit the substance content in the mixture to 50 %.**  
**Physical Form (at time of use)** : **Liquid, vapour pressure > 10 kPa**  
**Frequency and duration of use**  
**Remarks** : **Covers daily exposures up to 8 hours (unless stated differently).**

## Other operational conditions affecting workers exposure

**Outdoor / Indoor** : **Outdoor**  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). (Effectiveness (of a measure): 30 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Avoid carrying out operation for more than 1 hour.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

**Activity** : **Adhesives, sealants, Indoor**  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : **Limit the substance content in the mixture to 50 %.**  
**Physical Form (at time of use)** : **Liquid, vapour pressure > 10 kPa**  
**Frequency and duration of use**  
**Remarks** : **Covers daily exposures up to 8 hours (unless stated**

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differently).

## Other operational conditions affecting workers exposure

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

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 80 %)

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

---

Activity : Paint/coatings, Aerosols, Indoor  
Product characteristics  
Concentration of the Substance : Limit the substance content in the mixture to 50 %.  
in Mixture/Article  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa  
Frequency and duration of use  
Remarks : Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

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

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 80 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid carrying out operation for more than 4 hours.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.7 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

---

Activity : Paint/coatings, Aerosols, Outdoor  
Product characteristics  
Concentration of the Substance : Limit the substance content in the mixture to 50 %.  
in Mixture/Article  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

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## Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

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

## Technical conditions and measures

Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).  
(Effectiveness (of a measure): 30 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		12 µg/L	0.022
ERC8a	EUSES		Marine water		1.15 µg/L	0.00593
ERC8a	EUSES		Fresh water sediment		22 µg/kg wwt	0.022
ERC8a	EUSES		Marine sediment		2.06 µg/kg wwt	0.00593
ERC8a	EUSES		Soil		8.40 µg/kg wwt	0.016
ERC8a	EUSES		Groundwater		1.74 µg/L	0.00322
ERC8a	EUSES		Sewage treatment plant		76 µg/L	0.00293
ERC8a	EUSES		Fresh water		19 µg/L	0.035
ERC8a	EUSES		Marine water		1.85 µg/L	0.00954
ERC8a	EUSES		Fresh water sediment		35 µg/kg wwt	0.035
ERC8a	EUSES		Marine sediment		3.33 µg/kg wwt	0.00954

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ERC8a	EUSES		Soil		16 µg/kg ww	0.00563
ERC8a	EUSES		Groundwater		3.35 µg/L	0.00619
ERC8a	EUSES		Sewage treatment plant		0.146 mg/L	0.00564

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	50 ppm	0.5
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	2.74 mg/kg/day	0.001
PROC10	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	35 ppm	0.35
PROC10	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic exposure	2.74 mg/kg/day	0.001
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	50 ppm	0.5
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	2.74 mg/kg/day	0.001
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	60 ppm	0.6
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	10.71 mg/kg/day	0.002
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	35 ppm	0.35
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	10.71 mg/kg/day	0.002

ERC8a: Wide dispersive indoor use of processing aids in open systems

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**ERC8d: Wide dispersive outdoor use of processing aids in open systems**

**PROC10: Roller application or brushing**

**PROC11: Non industrial spraying**

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**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use in cleaning agents

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<b>Main User Groups</b>	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>Sectors of end-use</b>	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>Environmental Release Categories</b>	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
<b>Process categories</b>	: PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

**Activity** : Metal degreasers

#### Amount used

**Daily amount per site** : 6.47 kg  
**Annual amount per site** : 2.36 tonnes

#### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

#### Other given operational conditions affecting environmental exposure

##### Dispersive use

**Number of emission days per year** : 365

**Emission or Release Factor: Air** : 1 %

**Emission or Release Factor:** : 1 %

##### Water

**Emission or Release Factor: Soil** : 0.01 %

#### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : No soil emission controls required.

#### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

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## 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

Activity : Paint strippers

### Amount used

Daily amount per site : 15.4 kg  
Annual amount per site : 5.62 tonnes

### Environment factors not influenced by risk management

Flow rate : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Dispersive use

Number of emission days per year : 365

Emission or Release Factor: Air : 1 %

Emission or Release Factor: : 1 %

#### Water

Emission or Release Factor: Soil : 0.01 %

### Technical conditions and measures / Organizational measures

Air : No air emission controls required; required removal efficiency is 0%.

Water : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

Soil : No soil emission controls required.

### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/day

Percentage removed from waste water : 93.5 %

---

## 2.3 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

Activity : Cleaning agent, Indoor

### Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).

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## Other operational conditions affecting workers exposure

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

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

Activity : Cleaning agent, Outdoor  
Product characteristics  
Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa  
Frequency and duration of use  
Remarks : Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

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

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

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**Activity** : Paint stripper & graffiti remover, Indoor  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

**Outdoor / Indoor** : Indoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)  
Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

---

**Activity** : Paint stripper & graffiti remover, Outdoor  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

**Outdoor / Indoor** : Outdoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

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## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.7 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

---

Activity	: Paint stripper & graffiti remover, Indoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
Other operational conditions affecting workers exposure	
Outdoor / Indoor	: Indoor
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a full face respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 95 %)

---

## 2.8 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

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Activity	: Paint stripper & graffiti remover, Outdoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
Other operational conditions affecting workers exposure	

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**Outdoor / Indoor** : **Outdoor**  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a full face respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 95 %)

---

## 2.9 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

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**Activity** : Degreasing agent, Aerosols, Indoor  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa  
**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).  
**Other operational conditions affecting workers exposure**  
**Outdoor / Indoor** : **Indoor**  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a full face respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 95 %)

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## 2.10 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

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**Activity** : Degreasing agent, Aerosols, Outdoor  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

**Other operational conditions affecting workers exposure**  
**Outdoor / Indoor** : Outdoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

**Organisational measures to prevent /limit releases, dispersion and exposure**  
Ensure operation is undertaken outdoors., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

**Conditions and measures related to personal protection, hygiene and health evaluation**  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)  
Wear a full face respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 95 %)

---

## 2.11 Contributing scenario controlling worker exposure for: PROC11.; Non industrial spraying, Option 1

---

**Activity** : Paint strippers  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Frequency and duration of use**  
**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

**Technical conditions and measures**  
Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 80 %)

**Organisational measures to prevent /limit releases, dispersion and exposure**  
Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee

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training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.12 Contributing scenario controlling worker exposure for: PROC11.; Non industrial spraying, Option 2

---

Activity	: Paint strippers
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

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## 3. Exposure estimation and reference to its source

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Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES	Metal degreasers	Fresh water		13 µg/L	0.024
ERC8a	EUSES	Metal degreasers	Marine water		1.19 µg/L	0.00613
ERC8a	EUSES	Metal degreasers	Fresh water sediment		23 µg/kg wwt	0.024
ERC8a	EUSES	Metal degreasers	Marine sediment		2.14 µg/kg wwt	0.00613
ERC8a	EUSES	Metal degreasers	Soil		8.86 µg/kg wwt	0.017
ERC8a	EUSES	Metal	Groundwater		1.84 µg/L	0.00341

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		degreasers	r			
ERC8a	EUSES	Metal degreasers	Sewage treatment plant		80 µg/L	0.00308
ERC8a	EUSES	Paint strippers	Fresh water		24 µg/L	0.044
ERC8a	EUSES	Paint strippers	Marine water		2.30 µg/L	0.012
ERC8a	EUSES	Paint strippers	Fresh water sediment		43 µg/kg wwt	0.044
ERC8a	EUSES	Paint strippers	Marine sediment		4.14 µg/kg wwt	0.012
ERC8a	EUSES	Paint strippers	Soil		21 µg/kg wwt	0.041
ERC8a	EUSES	Paint strippers	Groundwater		4.37 µg/L	0.00809
ERC8a	EUSES	Paint strippers	Sewage treatment plant		191 µg/L	0.00737

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	30 ppm	0.3
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	5.49 mg/kg/day	0.001
PROC10	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	35 ppm	0.35
PROC10	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic exposure	5.49 mg/kg/day	0.001
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	50 ppm	0.5
PROC10	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	5.49 mg/kg/day	0.001
PROC10	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	35 ppm	0.35
PROC10	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic	5.49 mg/kg/day	0.001

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PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	50 ppm	0.5
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	21.43 mg/kg/day	0.005
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	35 ppm	0.35
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic exposure	21.43 mg/kg/day	0.005
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	50 ppm	0.5
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	21.43 mg/kg/day	0.005
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	35 ppm	0.35
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic exposure	21.43 mg/kg/day	0.005
PROC13	ECETOC TRA v2.0 Worker	Option 1	Chronic inhalation systemic exposure	50 ppm	0.5
PROC13	ECETOC TRA v2.0 Worker	Option 1	Chronic dermal systemic exposure	2.74 mg/kg/day	0.001
PROC13	ECETOC TRA v2.0 Worker	Option 2	Chronic inhalation systemic exposure	25 ppm	0.25
PROC13	ECETOC TRA v2.0 Worker	Option 2	Chronic dermal systemic exposure	2.74 mg/kg/day	0.001

ERC8a: Wide dispersive indoor use of processing aids in open systems  
 ERC8d: Wide dispersive outdoor use of processing aids in open systems  
 PROC10: Roller application or brushing  
 PROC11: Non industrial spraying  
 PROC13: Treatment of articles by dipping and pouring

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## **4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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## 1. Short title of Exposure Scenario: Use in cosmetics

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**Main User Groups** : SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
**Sectors of end-use** : SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
**Environmental Release Categories** : ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

**Activity** : Aerosols

#### Amount used

**Daily amount per site** : 6.14 kg  
**Annual amount per site** : 2.24 tonnes

#### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

#### Other given operational conditions affecting environmental exposure

##### Dispersive use

**Number of emission days per year** : 365

**Emission or Release Factor: Air** : 1 %

**Emission or Release Factor:** : 1 %

##### Water

**Emission or Release Factor: Soil** : 0.01 %

#### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : No soil emission controls required.

#### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

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## 3. Exposure estimation and reference to its source

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## Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		12 µg/L	0.022
ERC8a	EUSES		Marine water		1.15 µg/L	0.00593
ERC8a	EUSES		Fresh water sediment		22 µg/kg wwt	0.022
ERC8a	EUSES		Marine sediment		2.06 µg/kg wwt	0.00593
ERC8a	EUSES		Soil		8.40 µg/kg wwt	0.016
ERC8a	EUSES		Groundwater		1.74 µg/L	0.00322
ERC8a	EUSES		Sewage treatment plant		76 µg/L	0.00293

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

---

## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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## 1. Short title of Exposure Scenario: Use in agrochemicals (professional)

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**Main User Groups** : SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
**Sectors of end-use** : SU1: Agriculture, forestry, fishery  
**Environmental Release Categories** : ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems  
**Process categories** : PROC11: Non industrial spraying

---

## 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

**Activity** : Aerosols

### Amount used

**Daily amount per site** : 6.14 kg  
**Annual amount per site** : 2.24 tonnes

### Environment factors not influenced by risk management

**Flow rate** : 18,000 m<sup>3</sup>/day

### Other given operational conditions affecting environmental exposure

#### Dispersive use

**Number of emission days per year** : 365

**Emission or Release Factor: Air** : 1 %

**Emission or Release Factor:** : 1 %

#### Water

**Emission or Release Factor: Soil** : 0.01 %

### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : No soil emission controls required.

### Conditions and measures related to municipal sewage treatment plant

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

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## 2.2 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

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Activity	: Insecticide, Aerosols, Indoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 25 %.
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
Other operational conditions affecting workers exposure	
Outdoor / Indoor	: Indoor
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

---

Activity	: Insecticide, Aerosols, Indoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 25 %.
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Other operational conditions affecting workers exposure	
Outdoor / Indoor	: Indoor
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Ensure that enough fresh air is supplied to dilute and remove dusts, fumes or vapours. Between 5 and 15 air changes per hour are recommended, with a through draught. (Effectiveness (of a measure): 70 %)

Segregate the activity away from other operations. (Effectiveness (of a measure): 50 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear

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gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop., Avoid carrying out operation for more than 4 hours.

Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

---

Activity : Insecticide, Aerosols, Outdoor  
Product characteristics  
Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 25 %.  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

Frequency and duration of use  
Remarks : Covers daily exposures up to 8 hours (unless stated differently).

Other operational conditions affecting workers exposure  
Outdoor / Indoor : Outdoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Organisational measures to prevent /limit releases, dispersion and exposure  
Ensure operation is undertaken outdoors., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Conditions and measures related to personal protection, hygiene and health evaluation  
Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)  
Wear a respirator conforming to EN140 with Type A filter or better. (Effectiveness (of a measure): 90 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

---

Activity : Insecticide, Aerosols, Outdoor  
Product characteristics  
Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 25 %.  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

Frequency and duration of use

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**Remarks** : Covers daily exposures up to 8 hours (unless stated differently).

**Other operational conditions affecting workers exposure**

**Outdoor / Indoor** : Outdoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

**Technical conditions and measures**

Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20. (Effectiveness (of a measure): 95 %)

**Organisational measures to prevent /limit releases, dispersion and exposure**

Ensure operation is undertaken outdoors., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		12 µg/L	0.022
ERC8a	EUSES		Marine water		1.15 µg/L	0.00593
ERC8a	EUSES		Fresh water sediment		22 µg/kg wwt	0.022
ERC8a	EUSES		Marine sediment		2.06 µg/kg wwt	0.00593
ERC8a	EUSES		Soil		8.40 µg/kg wwt	0.016
ERC8a	EUSES		Groundwater		1.74 µg/L	0.00322
ERC8a	EUSES		Sewage treatment plant		76 µg/L	0.00293

### Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation	60 ppm	0.6

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			systemic exposure		
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	12.86 mg/kg/day	0.003
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic inhalation systemic exposure	54 ppm	0.54
PROC11	ECETOC TRA v2.0 Worker	Indoor	Chronic dermal systemic exposure	12.86 mg/kg/day	0.003
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	42 ppm	0.42
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic exposure	12.86 mg/kg/day	0.003
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic inhalation systemic exposure	21 ppm	0.21
PROC11	ECETOC TRA v2.0 Worker	Outdoor	Chronic dermal systemic exposure	12.86 mg/kg/day	0.003

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

PROC11: Non industrial spraying

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## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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## 1. Short title of Exposure Scenario: Packing and repacking of formulations

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<b>Main User Groups</b>	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>Sectors of end-use</b>	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>Environmental Release Categories</b>	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
<b>Process categories</b>	: PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

---

**Activity** : Aerosols

#### Amount used

Daily amount per site : 15.4 kg  
Annual amount per site : 5.62 tonnes

#### Environment factors not influenced by risk management

Flow rate : 18,000 m<sup>3</sup>/day

#### Other given operational conditions affecting environmental exposure

##### Dispersive use

Number of emission days per year : 365

Emission or Release Factor: Air : 1 %

Emission or Release Factor: : 1 %

##### Water

Emission or Release Factor: Soil : 0.01 %

#### Technical conditions and measures / Organizational measures

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : Soil emission controls are not applicable as there is no direct release to soil.

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Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment : 2,000 m<sup>3</sup>/day  
plant effluent  
Percentage removed from waste : 93.5 %  
water

---

## 2.2 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

---

Activity : Repackaging, Indoor  
Product characteristics  
Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
in Mixture/Article  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa  
Other operational conditions affecting workers exposure  
Outdoor / Indoor : Indoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

### Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 80 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop., Avoid carrying out operation for more than 4 hours.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

---

Activity : Repackaging, Outdoor  
Product characteristics  
Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
in Mixture/Article  
Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa  
Other operational conditions affecting workers exposure  
Outdoor / Indoor : Outdoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

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## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Avoid carrying out operation for more than 1 hour., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.4 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

---

Activity	: Repackaging, Indoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

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

## Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation. (Effectiveness (of a measure): 90 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.5 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

---

Activity	: Repackaging, Outdoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa

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## Other operational conditions affecting workers exposure

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

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Use dedicated equipment., Avoid carrying out operation for more than 1 hour., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

---

## 2.6 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

---

Activity	: Repackaging, Indoor
Product characteristics	
Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure > 10 kPa
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently).

## Other operational conditions affecting workers exposure

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

## Technical conditions and measures

Fill containers/cans at dedicated filling points supplied with local extract ventilation. (Effectiveness (of a measure): 80 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 2.7 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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# METHYLENE CHLORIDE (stabilizer: Amylene)

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**Activity** : Repackaging, Outdoor  
**Product characteristics**  
**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).  
**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Other operational conditions affecting workers exposure**  
**Outdoor / Indoor** : Outdoor  
: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operation is undertaken outdoors., Use dedicated equipment., Avoid carrying out operation for more than 1 hour., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		0.283 mg/L	0.524
ERC8a	EUSES		Marine water		0.0282 mg/L	0.145
ERC8a	EUSES		Fresh water sediment		0.509 mg/kg wet weight	0.524
ERC8a	EUSES		Marine sediment		0.0507 mg/kg wet weight	0.145
ERC8a	EUSES		Soil		0.308 mg/kg dry weight	0.599
ERC8a	EUSES		Groundwater		0.0639 mg/L	0.118
ERC8a	EUSES		Sewage treatment plant		2.78 mg/L	0.107

### Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
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PROC8a	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	60 ppm	0.6
PROC8a	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	2.74 mg/kg/day	0.0006
PROC8a	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	70 ppm	0.7
PROC8a	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	2.74 mg/kg/day	0.0006
PROC8b	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	25 ppm	0.25
PROC8b	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC8b	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	35 ppm	0.35
PROC8b	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC9	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC9	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003
PROC9	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	35 ppm	0.35
PROC9	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	1.37 mg/kg/day	0.0003

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

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**PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)**

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**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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# METHYLENE CHLORIDE (stabilizer: Amylene)

Version 1

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## 1. Short title of Exposure Scenario: Laboratory Reagents

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**Main User Groups** : SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
**Sectors of end-use** : SU24: Scientific research and development  
**Environmental Release Categories** : ERC8a: Wide dispersive indoor use of processing aids in open systems  
**Process categories** : PROC10: Roller application or brushing  
PROC15: Use as laboratory reagent

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a: Wide dispersive indoor use of processing aids in open systems

---

**Activity** : Aerosols

**Amount used**

**Daily amount per site** : 704 kg  
**Annual amount per site** : 257 tonnes

**Environment factors not influenced by risk management**

**Flow rate** : 18,000 m<sup>3</sup>/day

**Other given operational conditions affecting environmental exposure**

**Dispersive use**

**Number of emission days per year** : 365

**Emission or Release Factor: Air** : 0.5 %

**Emission or Release Factor:** : 0.5 %

**Water**

**Emission or Release Factor: Soil** : 0 %

**Remarks** : Indoor use

**Technical conditions and measures / Organizational measures**

**Air** : No air emission controls required; required removal efficiency is 0%.

**Water** : Ensure all waste water is collected and treated via a WWTP., Prevent discharge of undissolved substance to or recover from wastewater.

**Soil** : No soil emission controls required.

**Conditions and measures related to municipal sewage treatment plant**

**Type of Sewage Treatment Plant** : Municipal sewage treatment plant

**Flow rate of sewage treatment plant effluent** : 2,000 m<sup>3</sup>/day

**Percentage removed from waste water** : 93.5 %

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### 2.2 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

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<b>Activity</b>	: Coatings and paints, thinners, paint removers, Indoor
<b>Product characteristics</b>	
<b>Concentration of the Substance in Mixture/Article</b>	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
<b>Physical Form (at time of use)</b>	: Liquid, vapour pressure > 10 kPa
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Technical conditions and measures

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 80 %)

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid carrying out operation for more than 4 hours., Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)

---

## 2.3 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

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### Product characteristics

<b>Concentration of the Substance in Mixture/Article</b>	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
<b>Physical Form (at time of use)</b>	: Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

<b>Remarks</b>	: Covers daily exposures up to 8 hours (unless stated differently).
	: , Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

## Organisational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 80 %)

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## 3. Exposure estimation and reference to its source

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## Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		5.77 µg/L	0.011
ERC8a	EUSES		Marine water		0.481 µg/L	0.00248
ERC8a	EUSES		Fresh water sediment		10 µg/kg wwt	0.011
ERC8a	EUSES		Marine sediment		0.865 µg/kg wwt	0.00248
ERC8a	EUSES		Soil		1.02 µg/kg wwt	0.00199
ERC8a	EUSES		Groundwater		0.221 µg/L	0.000409
ERC8a	EUSES		Sewage treatment plant		9.13 µg/L	0.000353

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC10	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	60 ppm	0.6
PROC10	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	5.49 mg/kg/day	0.0012
PROC15	ECETOC TRA v2.0 Worker		Chronic inhalation systemic exposure	50 ppm	0.5
PROC15	ECETOC TRA v2.0 Worker		Chronic dermal systemic exposure	0.07 mg/kg/day	0.00001

ERC8a: Wide dispersive indoor use of processing aids in open systems

PROC10: Roller application or brushing

PROC15: Use as laboratory reagent

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## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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# METHYLENE CHLORIDE (stabilizer: Amylene)

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## 1. Short title of Exposure Scenario: Consumer use

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<b>Main User Groups</b>	: SU 21: Consumer uses: Private households (= general public = consumers)
<b>Sectors of end-use</b>	: SU 21: Consumer uses: Private households (= general public = consumers)
<b>Environmental Release Categories</b>	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
<b>Chemical product category</b>	: PC1: Adhesives, sealants PC8: Biocidal products (e.g. Disinfectants, pest control) PC9: Coatings and Paints, Fillers, Putties, Thinners PC27: Plant protection products PC35: Washing and cleaning products (including solvent based products) PC39: Cosmetics, personal care products

---

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

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#### Amount used

Daily amount per site	: 15.4 kg
Annual amount per site	: 5.62 tonnes

#### Environment factors not influenced by risk management

Flow rate	: 18,000 m <sup>3</sup> /day
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#### Other given operational conditions affecting environmental exposure

##### Dispersive use

Number of emission days per year	: 365
Emission or Release Factor: Air	: 1 %
Emission or Release Factor:	: 1 %
Water	
Emission or Release Factor: Soil	: 0.01 %

#### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	: Municipal sewage treatment plant
Flow rate of sewage treatment plant effluent	: 2,000 m <sup>3</sup> /day
Percentage removed from waste water	: 93.5 %

---

### 2.2 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Glues from tube

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#### Product characteristics

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**Concentration of the Substance in Mixture/Article** : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

## Amount used

**Amount used per event** : 9 gram

## Frequency and duration of use

**Duration of the activity** : < 240 min

**Frequency of use** : 52 days/year

## Human factors not influenced by risk management

**Dermal exposure** : 2 cm<sup>2</sup>

## Other given operational conditions affecting consumers exposure

**Room size** : 20 m<sup>3</sup>

**Remarks** : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

## Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

**Consumer Measures** : Avoid skin contact area greater than 2 cm<sup>2</sup>

---

## 2.3 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants

---

**Activity** : Use of sealants by rolling

## Product characteristics

**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

## Amount used

**Amount used per event** : 10 gram

## Frequency and duration of use

**Duration of the activity** : < 240 min

**Frequency of use** : 52 days/year

## Human factors not influenced by risk management

**Dermal exposure** : 2 cm<sup>2</sup>

## Other given operational conditions affecting consumers exposure

**Room size** : 20 m<sup>3</sup>

**Remarks** : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

## Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

**Consumer Measures** : Avoid skin contact area greater than 2 cm<sup>2</sup>

---

## 2.4 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Super glue

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## Product characteristics

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

## Amount used

Amount used per event : 0.5 gram

## Frequency and duration of use

Duration of the activity : < 240 min

Frequency of use : 12 days/year

## Human factors not influenced by risk management

Dermal exposure : 2 cm<sup>2</sup>

## Other given operational conditions affecting consumers exposure

Room size : 20 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

## Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Avoid skin contact area greater than 2 cm<sup>2</sup>

---

## 2.5 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Wood parquet glue

---

## Product characteristics

Concentration of the Substance in Mixture/Article : Covers percentage substance in the product up to 10%.

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

## Amount used

Amount used per event : 0.75 kg

## Frequency and duration of use

Duration of the activity : < 240 min

Remarks : 0.25, event(s)/year

## Human factors not influenced by risk management

Dermal exposure : 110 cm<sup>2</sup>

## Other given operational conditions affecting consumers exposure

Room size : 58 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

## Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Avoid skin contact area greater than 110 cm<sup>2</sup>, Avoid using at a product concentration greater than 10%, Avoid using when windows closed

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## 2.6 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Carpet glue

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### Product characteristics

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Amount used

Amount used per event : 1 kg

### Frequency and duration of use

Duration of the activity : < 75 min

Remarks : 0.25, event(s)/year

### Human factors not influenced by risk management

Dermal exposure : 110 cm<sup>2</sup>

### Other given operational conditions affecting consumers exposure

Room size : 58 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

### Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Avoid skin contact area greater than 110 cm<sup>2</sup>, Avoid using at a product concentration greater than 10%, Avoid using when windows closed

---

## 2.7 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Glue from spray

---

### Product characteristics

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Frequency and duration of use

Duration of the activity : < 240 min

Frequency of use : 12 days/year

### Human factors not influenced by risk management

Dermal exposure : 430 cm<sup>2</sup>

### Other given operational conditions affecting consumers exposure

Room size : 20 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

### Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Spraying away from exposed person, Avoid skin contact area greater than 430 cm<sup>2</sup>, Avoid using at a product

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concentration greater than 20%

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## 2.8 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Glue from spray (joint sealants)

---

### Product characteristics

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Amount used

Amount used per event : 75 gram

### Frequency and duration of use

Duration of the activity : 45 min

Frequency of use : 3 days/year

### Human factors not influenced by risk management

Dermal exposure : 2 cm<sup>2</sup>

### Other given operational conditions affecting consumers exposure

Room size : 10 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

### Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Avoid skin contact area greater than 2 cm<sup>2</sup>, Avoid using at a product concentration greater than 10%

---

## 2.9 Contributing scenario controlling consumer exposure for: PC1: Adhesives, sealants : DIY - Assembly sealants

---

### Product characteristics

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

### Amount used

Amount used per event : 390 gram

### Frequency and duration of use

Duration of the activity : < 240 min

Frequency of use : 1 days/year

### Human factors not influenced by risk management

Dermal exposure : 43 cm<sup>2</sup>

### Other given operational conditions affecting consumers exposure

Room size : 20 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

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**Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)**

**Consumer Measures** : Avoid skin contact area greater than 43 cm<sup>2</sup>, Avoid using at a product concentration greater than 14%, Avoid using when windows closed

---

## 2.10 Contributing scenario controlling consumer exposure for: PC9: Coatings and Paints, Fillers, Putties, Thinners

---

**Product characteristics**

**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Amount used**

**Amount used per event** : 279 gram

**Frequency and duration of use**

**Duration of the activity** : 20 min

**Frequency of use** : 2 days/year

**Other given operational conditions affecting consumers exposure**

**Room size** : 34 m<sup>3</sup>

**Remarks** : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

**Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)**

**Consumer Measures** : Spraying away from exposed person, Avoid using at a product concentration greater than 20%

---

## 2.11 Contributing scenario controlling consumer exposure for: PC27: Plant protection products

---

**Product characteristics**

**Physical Form (at time of use)** : Liquid, vapour pressure > 10 kPa

**Amount used**

**Amount used per event** : 14.85 gram

**Frequency and duration of use**

**Duration of the activity** : < 240 min

**Frequency of use** : 90 days/year

**Other given operational conditions affecting consumers exposure**

**Room size** : 58 m<sup>3</sup>

**Remarks** : Assumes activities are at ambient temperature (unless stated differently)., Assumes use with typical ventilation

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Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Spraying away from exposed person, Avoid using at a product concentration greater than 20%

## 2.12 Contributing scenario controlling consumer exposure for: PC35: Washing and cleaning products (including solvent based products)

Product characteristics

Physical Form (at time of use) : Liquid, vapour pressure > 10 kPa

Amount used

Amount used per event : 27 gram

Frequency and duration of use

Duration of the activity : < 60 min

Frequency of use : 1 event/day

Frequency of use : 128 days/year

Human factors not influenced by risk management

Dermal exposure : 215 cm<sup>2</sup>

Other given operational conditions affecting consumers exposure

Room size : 15 m<sup>3</sup>

Remarks : Assumes activities are at ambient temperature (unless stated differently), Covers use under typical household ventilation

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Avoid skin contact area greater than 215 cm<sup>2</sup>, Avoid using at a product concentration greater than 20%

## 3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		13 µg/L	0.024
ERC8a	EUSES		Marine water		1.19 µg/L	0.00613
ERC8a	EUSES		Fresh water sediment		23	0.024
ERC8a	EUSES		Marine sediment		2.14	0.00613
ERC8a	EUSES		Soil		8.86	0.017
ERC8a	EUSES		Groundwater		1.84 µg/L	0.00341

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ERC8a	EUSES		Sewage treatment plant		80 µg/L	0.00308
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## Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PC1	Consexpo	DIY - Glues from tube	Acute inhalation systemic exposure		0.44
PC1	Consexpo	DIY - Glues from tube	Chronic inhalation systemic exposure		0.29
PC1	Consexpo	DIY - Glues from tube	Chronic dermal systemic exposure		0.0006
PC1	Consexpo	Use of sealants by rolling	Acute inhalation systemic exposure		0.44
PC1	Consexpo	Use of sealants by rolling	Chronic inhalation systemic exposure		0.29
PC1	Consexpo	Use of sealants by rolling	Chronic dermal systemic exposure		0.0006
PC1	Consexpo	DIY - Super glue	Acute inhalation systemic exposure		0.44
PC1	Consexpo	DIY - Super glue	Chronic inhalation systemic exposure		0.29
PC1	Consexpo	DIY - Super glue	Chronic dermal systemic exposure		0.0006
PC1	Consexpo	DIY - Wood parquet glue	Acute inhalation systemic exposure		0.44
PC1	Consexpo	DIY - Wood parquet glue	Chronic inhalation systemic exposure		0.29
PC1	Consexpo	DIY - Wood parquet glue	Chronic		0.0006

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			dermal systemic exposure	
PC1	Consexpo	DIY - Carpet glue	Acute inhalation systemic exposure	0.44
PC1	Consexpo	DIY - Carpet glue	Chronic inhalation systemic exposure	0.29
PC1	Consexpo	DIY - Carpet glue	Chronic dermal systemic exposure	0.0006
PC1	Consexpo	DIY - Glue from spray	Acute inhalation systemic exposure	0.44
PC1	Consexpo	DIY - Glue from spray	Chronic inhalation systemic exposure	0.29
PC1	Consexpo	DIY - Glue from spray	Chronic dermal systemic exposure	0.0006
PC1	Consexpo	DIY - Glue from spray (joint sealants)	Acute inhalation systemic exposure	0.44
PC1	Consexpo	DIY - Glue from spray (joint sealants)	Chronic inhalation systemic exposure	0.29
PC1	Consexpo	DIY - Glue from spray (joint sealants)	Chronic dermal systemic exposure	0.0006
PC1	Consexpo	DIY - Assembly sealants	Acute inhalation systemic exposure	0.44
PC1	Consexpo	DIY - Assembly sealants	Chronic inhalation systemic exposure	0.29
PC1	Consexpo	DIY - Assembly sealants	Chronic dermal systemic exposure	0.0006
PC9	Consexpo		Acute inhalation systemic exposure	0.44

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PC9	Consexpo		Chronic inhalation systemic exposure	0.29
PC9	Consexpo		Chronic dermal systemic exposure	0.0006
PC27	Consexpo		Acute inhalation systemic exposure	0.44
PC27	Consexpo		Chronic inhalation systemic exposure	0.29
PC27	Consexpo		Chronic dermal systemic exposure	0.0006
PC35	Consexpo		Acute inhalation systemic exposure	0.44
PC35	Consexpo		Chronic inhalation systemic exposure	0.29
PC35	Consexpo		Chronic dermal systemic exposure	0.0006

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

PC1: Adhesives, sealants

PC27: Plant protection products

PC35: Washing and cleaning products (including solvent based products)

PC9: Coatings and Paints, Fillers, Putties, Thinners

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**4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario**

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