



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

This SDS is for generic information purposes and does not reflect required country specific information for OEL

Polytec EP 601 Part A
Supersedes Date: 11-Dec-2023

Revision date 06-Feb-2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Polytec EP 601 Part A

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Resin

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Polytec PT GmbH
Ettlinger Strasse 30
76307 Karlsbad
Germany
Tel: +49 7202 706-3500

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to
Regulation (EC) No. 1272/2008
[CLP]

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains bis-[4-(2,3-epoxipropoxy)phenyl]propane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

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Signal word
Warning

Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P337 + P313 - If eye irritation persists: Get medical advice/attention
P391 - Collect spillage

Additional information

This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

2.3. Other hazards

No information available.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No).	CAS No..	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
bis-[4-(2,3-epoxipropoxy)phenyl]propane 40 - <80 %	216-823-5 (603-073-00-2)	1675-54-3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) (EUH205)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-	01-2119456619-26-xxxx
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropa	500-006-8	9003-36-5	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2	-	-	-	01-2119454392-40-XXXX

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ne and phenol 40 - <80 %			(H411)				
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Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
bis-[4-(2,3-epoxipropoxy)phenyl]propane	216-823-5 (603-073-00-2)	1675-54-3	-	-	-	-	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	500-006-8	9003-36-5	-	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
Effects of Exposure	No information available.

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

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products Carbon oxides. Hydrogen chloride.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

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product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Recommended storage temperature Keep at temperatures between 5 and 35 °C.

7.3. Specific end use(s)

Specific use(s)
Resin.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	12.25 mg/m ³	
worker Short term Systemic health effects	Inhalation	12.25 mg/m ³	
worker Long term Systemic health effects	Dermal	8.33 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	8.33 mg/kg bw/d	

Derived No Effect Level (DNEL)			
bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	3.571 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	3.571 mg/kg bw/d	
Consumer Long term	Oral	0.75 mg/kg bw/d	

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Systemic health effects			
Consumer	Dermal	0.75 mg/kg bw/d	
Short term			
Systemic health effects			

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.006 mg/l
Marine water	0.001 mg/l
Sewage treatment plant	10 mg/l
Freshwater sediment	0.996 mg/kg dry weight
Marine sediment	0.1 mg/kg dry weight
Soil	0.196 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Recommended Use: Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Unsuitable gloves materials: Disposable gloves. Leather. Gloves must conform to standard EN 374

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

During spraying wear suitable respiratory equipment. In case of inadequate ventilation wear respiratory protection.

Recommended filter type:

Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Colour	Transparent
Odour	Characteristic.

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	= 201 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	= 214 °C	Not determined
Autoignition temperature	400 °C	Not applicable

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Decomposition temperature		None known
pH	No data available	Not applicable. Substance/mixture is non-polar/aprotic.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	8000 mPa s	@ 23 °C
Water solubility	Immiscible in water.	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density	1.17 g/cm ³	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Solid content (%)	No information available
VOC content	No data available

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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10.4. Conditions to avoid

Conditions to avoid	None known based on information supplied.
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10.5. Incompatible materials

Incompatible materials	Strong acids. Strong bases. Strong oxidising agents. Strong reducing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Carbon oxides.
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SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	>5000 mg/kg
ATEmix (dermal)	>5000 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	>5 mg/l
ATEmix (inhalation-vapour)	>20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
bis-[4-(2,3-epoxypropoxy)phenyl]propane	=11300 µL/kg (Rattus)	LD50 >2000 mg/Kg (Rattus)	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	LD50 > 5 g/kg (Rattus) (OECD 401)	LD50 > 2000 mg/kg (Rattus)(OECD 402)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.

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Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants This product is part of a kit Please also refer to the SDS for the other component(s) of the kit

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
bis-[4-(2,3-epoxipropoxy)phenyl]propane 1675-54-3	EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009	1.5 mg/l 96Hr (Oncorhynchus mykiss) (OECD 203)	-	LD50 (48h) =2.7 mg/L (Daphnia magna) (OECD 202)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
bis-[4-(2,3-epoxipropoxy)phenyl]propane	3.78

12.4. Mobility in soil

Mobility in soil No information available.

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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
bis-[4-(2,3-epoxipropoxy)phenyl]propane	The substance is not PBT / vPvB
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number UN3082

14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s.
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)

14.3 Transport hazard class(es) 9

Labels 9

14.4 Packing group III

Description UN3082, Environmentally hazardous substances, liquid, n.o.s.
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III, (-)

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 274, 335, 601, 375

Classification code M6

Tunnel restriction code (-)

Limited quantity (LQ) 5 L

ADR Hazard Id (Kemmler Number) 90

IMDG

14.1 UN number or ID number UN3082

14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s.

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	(bis-[4-(2,3-epoxipropoxi)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III, Marine pollutant
14.5 Marine pollutant	P
14.6 Special precautions for user	
Special Provisions	274, 335, 969
Limited Quantity (LQ)	5 L
EmS-No.	F-A, S-F
14.7 Maritime transport in bulk according to IMO instruments	
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A97, A158, A197
Limited quantity (LQ)	30 kg G
ERG Code	9L

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

Persistent Organic Pollutants
Not applicable

National regulations

France

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV
No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) obviously hazardous to water (WGK 2)

TRGS - 510 Storage Class Storage Class 10 : Combustible liquids

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)
Not Listed

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

EUH205 - Contains epoxy constituents. May produce an allergic reaction

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

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RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
AGW	Occupational exposure limit value	BGW	Biological limit value
Ceiling	Maximum limit value	Sk*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

Revision date 06-Feb-2024

Training Advice No information available

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

Disclaimer

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.

End of Safety Data Sheet



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This safety data sheet was created pursuant to the requirements of:
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Polytec EP 601 Part B

Other means of identification

REACH Registration Number 01-2119557899-12-xxxx
Pure substance/mixture Substance

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

Recommended use Hardener

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Polytec PT GmbH
Ettlinger Strasse 30
76307 Karlsbad
Germany
Tel: +49 7202 706-3500

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to
Regulation (EC) No. 1272/2008
[CLP]

Skin corrosion/irritation	Category 1 Sub-category C - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

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Signal word
Danger

Hazard statements

H314 - Causes severe skin burns and eye damage
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing and eye/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public. This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

2.3. Other hazards

Harmful to aquatic life.

PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	EC No (EU Index No).	CAS No..	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia 80 - 100 %	(618-561-0)	--	Skin Corr. 1C (H314) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	-	-	-	01-2119557899-12-XXXX

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

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If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	(618-561-0)	--	-	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

Symptoms	Burning sensation.
Effects of Exposure	No information available.

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

Note to doctors	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood
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pressure may occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling This product is part of a kit. Please also refer to the SDS for the other component(s) of

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the kit. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

Recommended storage temperature

Keep at temperatures between 2 and 40 °C.

7.3. Specific end use(s)

Specific use(s)
Hardener.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	2.5 mg/kg bw/d	
worker	Inhalation	1.36 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)			
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--)			

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Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.015 mg/l
Marine water	0.0142 mg/l
Freshwater sediment	0.132 mg/kg dry weight
Marine sediment	0.125 mg/kg dry weight
Sewage treatment plant	7.5 mg/l
Freshwater - intermittent	0.15 mg/kg dry weight
Soil	0.018 mg/kg dry weight

8.2. Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles). Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.
Hand protection	Recommended Use: Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 240 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Unsuitable protective clothing. Leather. Disposable gloves. Gloves must conform to standard EN 374
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. During spraying wear suitable respiratory equipment.
Recommended filter type:	Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Colour	Transparent
Odour	Ammoniacal.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	232 °C	No information available
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	128 °C	CC (closed cup) ISO 2719
Autoignition temperature	230 °C	Not applicable
Decomposition temperature		None known
pH	No data available	None known.
pH (as aqueous solution)	11.7	solution (5 %)
Kinematic viscosity	5.46 mm ² /s	@ 40°C
Dynamic viscosity	10 mPa s	@ 23 °C
Water solubility	Immiscible in water. 100 g/l @ 20 °C	No information available
Solubility(ies)	No data available	None known
Partition coefficient	1.34	@ 25 °C

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Vapour pressure	0.9 hPa	@ 20 °C
Relative density	No data available	None known
Bulk density	No data available	
Density	0.95 g/cm ³	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Solid content (%)	No information available
VOC content	No data available

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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10.4. Conditions to avoid

Conditions to avoid	Exposure to air or moisture over prolonged periods.
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10.5. Incompatible materials

Incompatible materials	Acids. Bases. Oxidising agent.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Ammonia. Carbon monoxide. Carbon dioxide (CO ₂). Aldehydes. Ketones and their derivatives. Nitrogen oxides (NO _x).
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SECTION 11: Toxicological information

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

Information on likely routes of exposure

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Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Prolonged skin contact causes burns. Symptoms may be delayed. Specific test data for the substance or mixture is not available. May cause irritation.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	LD50: 2885 mg/kg (Rattus) OECD 401	LD50: 2980 mg/kg (Oryctolagus cuniculus) OECD 402	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes severe skin burns and eye damage.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit			1-4 hours	Corrosive

Serious eye damage/eye irritation Causes serious eye damage. Causes burns. Classification based on data available for ingredients.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--)

Method	Species	Exposure route	Effective dose	Exposure time	Results
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OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit				Corrosive - causes irreversible eye damage
---	--------	--	--	--	--

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Component Information

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test		Negative

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--

Method	Species	Results
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat Dermal	No adverse effects
OECD Test No. 414: Pre-natal Development Toxicity Study	Oral	NOAEL 350 mg/kg bw/d

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants This product is part of a kit Please also refer to the SDS for the other component(s) of the kit

SECTION 12: Ecological information

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12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia --	-	LC50 (96h) > 15 mg/l (Oncorhynchus mykiss) OECD 203	EC50 (3hr) : 750mg/l OECD 209	EC50 (48h) = 80 mg/l (Daphnia magna) OECD 202		

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (--)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	biodegradation	0 % Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	1.34

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The mixture does not contain substances $\geq 0.1\%$ that have endocrine disrupting properties according to Regulation (EC) No 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Waste codes / waste designations according to EWC	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.
European Waste Catalogue	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia)
14.3 Transport hazard class(es)	8
Labels	8
14.4 Packing group	III
Description	UN2735, Amines, liquid, corrosive, n.o.s. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia), 8, III, (E)
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	274
Classification code	C7
Tunnel restriction code	(E)
Limited quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	80

IMDG

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2735, Amines, liquid, corrosive, n.o.s. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia), 8, III
14.5 Marine pollutant	NP
14.6 Special precautions for user	
Special Provisions	223, 274
Limited Quantity (LQ)	5 L
EmS-No.	F-A, S-B
14.7 Maritime transport in bulk according to IMO instruments	
Transport in bulk according to Annex II of MARPOL and the IBC Code	
Not applicable	

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2735, Amines, liquid, corrosive, n.o.s. (Reaction products of di-, tri- and

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14.5 Environmental hazards	tetra-propoxylated propane-1,2-diol with ammonia), 8, III No
14.6 Special precautions for user	
Special Provisions	A3, A803
Limited quantity (LQ)	1 L
ERG Code	8L

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

Not applicable

National regulations

France

Germany

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Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

TRGS - 510 Storage Class Storage Class 8A: Combustible corrosive substances

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
AGW	Occupational exposure limit value	BGW	Biological limit value
Ceiling	Maximum limit value	Sk*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method

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Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGl(s))
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

Revision date 12-Dec-2023

Training Advice No information available

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Disclaimer

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.

End of Safety Data Sheet

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Annex to the Safety Data Sheet (eSDS)

ES 1	Manufacture of substance. Industrial uses
ES 2	Formulation. Industrial uses
ES 3	Formulation., Oil and gas exploration or production products. Industrial uses
ES 4	Use as a reactant or intermediate. Industrial uses
ES 5	Use as processing aid. Industrial uses
ES 6	Oil and gas exploration or production products. Industrial uses
ES 7	Use as laboratory chemical. Professional uses
ES 8	Professional uses.
ES 9	Wide dispersive outdoor use of long-life articles and materials with low release Consumer uses
ES 10	Wide dispersive indoor use of long-life articles and materials with low release Consumer uses

ES 1: Manufacture of substance..

1.1. Title section

Exposure Scenario name : Manufacture of substance.

Environment

CS 1 Manufacture of the substance ERC1

Worker

CS 2 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC1

CS 3 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC2

CS 4 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC3

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CS 5	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 6	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 7	Use as laboratory reagent	PROC15

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 16000 tonnes/year
Daily amount per site	: 53333.333333 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 88,459.4 kg/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 300
Technical and organisational conditions and measures	
Sludge treatment e.g. thermal sludge reduction Soil - minimum efficiency of 100 %	
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 1,388 m3/s
Local freshwater dilution factor	: 1,000
Local marine water dilution factor	: 9,999

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

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Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm²)
Indoor or outdoor use	: Outdoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm²)

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Indoor or outdoor use	: Outdoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)

Indoor or outdoor use	: Outdoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	

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Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm²)
Indoor or outdoor use	: Outdoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	

Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm²)
Indoor or outdoor use	: Outdoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Manufacture of the substance (ERC1)

Release route	Release rate	Release estimation method
Water	0.002 %	Environmental Release Category (ERC)
Air	0 %	Environmental Release Category (ERC)
Soil	0.01 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0090334mg/L	0.602

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Freshwater sediment	0.0795845mg/kg dry weight	0.603
Marine water	0.0009039mg/L	0.064
Marine sediment	0.0079633mg/kg dry weight	0.064
Soil	0.0000545mg/kg dry weight	0.003

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.034mg/kg bw/day (EASY TRA v3.6)	0.014
inhalative	systemic	long-term	0.067mg/m ³ (EASY TRA v3.6)	0.013

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.274mg/kg bw/day (EASY TRA v3.6)	0.11
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.686mg/kg bw/day (EASY TRA v3.6)	0.274
inhalative	systemic	long-term	2.012mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

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

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

1.3.7. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137
inhalative	systemic	long-term	3.354mg/m ³ (EASY TRA v3.6)	0.634

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 2: Formulation..

2.1. Title section

Exposure Scenario name	: Formulation.
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Environment		
CS 1	Formulation into mixture	ERC2
Worker		
CS 2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1

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CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4
CS 6	Mixing or blending in batch processes	PROC5
CS 7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 8	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 10	Use as laboratory reagent	PROC15

2.2. Conditions of use affecting exposure

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

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 12800 tonnes/year
Daily amount per site	: 42666.666667 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 4,401.5 tonnes/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 300

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Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	

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Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week

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Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 95 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	

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Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	

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Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

2.3. Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Water	0 %	Environmental Release Category (ERC)
Air	0.01 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001452mg/L	0.01
Freshwater sediment	0.0012796mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001328mg/kg dry weight	0.001
Soil	0.0018473mg/kg dry weight	0.105

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.034mg/kg bw/day (EASY TRA v3.6)	0.014
inhalative	systemic	long-term	0.096mg/m ³ (EASY TRA v3.6)	0.018

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.274mg/kg bw/day (EASY TRA v3.6)	0.11
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.686mg/kg bw/day (EASY TRA v3.6)	0.274
inhalative	systemic	long-term	2.013mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.342mg/m ³ (EASY TRA v3.6)	0.254

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.335mg/m ³ (EASY TRA v3.6)	0.063

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

2.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137
inhalative	systemic	long-term	3.354mg/m ³ (EASY TRA v3.6)	0.634

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

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ES 3: Formulation., Oil and gas exploration or production products..

3.1. Title section

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

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3.2. Conditions of use affecting exposure

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

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 50 tonnes/year
Daily amount per site	: 166.666667 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 294.5 kg/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 300
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)

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Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	

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Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics

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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week

Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week

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Technical and organisational conditions and measures
Local exhaust ventilation Inhalation - minimum efficiency of 95 %
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure

Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	

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Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

3.3. Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Water	0.1 %	Environmental Release Category (ERC)

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Air	0.1 %	Environmental Release Category (ERC)
Soil	0.05 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0084779mg/L	0.565
Freshwater sediment	0.0746905mg/kg dry weight	0.566
Marine water	0.0008483mg/L	0.06
Marine sediment	0.0074739mg/kg dry weight	0.06
Soil	0.0001027mg/kg dry weight	0.006

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.034mg/kg bw/day (EASY TRA v3.6)	0.014
inhalative	systemic	long-term	0.096mg/m ³ (EASY TRA v3.6)	0.018

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.274mg/kg bw/day (EASY TRA v3.6)	0.11
inhalative	systemic	long-term	0.958mg/m ³ (EASY TRA v3.6)	0.181

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.686mg/kg bw/day (EASY TRA v3.6)	0.274
inhalative	systemic	long-term	2.013mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.342mg/m ³ (EASY TRA v3.6)	0.254

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.335mg/m ³ (EASY TRA v3.6)	0.063

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

3.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137

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inhalative	systemic	long-term	3.354mg/m ³ (EASY TRA v3.6)	0.634
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3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 4: Use as a reactant or intermediate..

4.1. Title section

Exposure Scenario name	: Use as a reactant or intermediate.
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Environment		
CS 1	Use of intermediate	ERC6a

CS 2	Use of reactive processing aid at industrial site (no inclusion into or onto article)	ERC6b
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Worker		
CS 3	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1

CS 4	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
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CS 5	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
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CS 6	Chemical production where opportunity for exposure arises	PROC4
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CS 7	Mixing or blending in batch processes	PROC5
CS 8	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 9	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 10	Use as laboratory reagent	PROC15
CS 11	Use of fuels	PROC16

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Use of intermediate (ERC6a)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 3200 tonnes/year
Daily amount per site	: 16000 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 1,650.6 tonnes/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 200
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

4.2.2. Control of environmental exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

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Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 3200 tonnes/year
Daily amount per site	: 16000 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 1,650.6 tonnes/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 200
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm²)

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Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week

Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics

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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature : 20 °C	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	

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Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use

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Temperature	: 20 °C
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4.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa

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Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 95 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	

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Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

4.2.11. Control of worker exposure: Use of fuels (PROC16)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).	

Inhalation - minimum efficiency of 30 %

Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Use of intermediate (ERC6a)

Release route	Release rate	Release estimation method
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Water	0 %	Environmental Release Category (ERC)
Air	0.01 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001452mg/L	0.01
Freshwater sediment	0.0012796mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001328mg/kg dry weight	0.001
Soil	0.0004857mg/kg dry weight	0.028

4.3.2. Environmental release and exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Release route	Release rate	Release estimation method
Water	0 %	Environmental Release Category (ERC)
Air	0.01 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001452mg/L	0.01
Freshwater sediment	0.0012796mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001328mg/kg dry weight	0.001
Soil	0.0004857mg/kg dry weight	0.028

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.034mg/kg bw/day (EASY TRA v3.6)	0.014

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inhalative	systemic	long-term	0.067mg/m ³ (EASY TRA v3.6)	0.013
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4.3.4. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.274mg/kg bw/day (EASY TRA v3.6)	0.11
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.686mg/kg bw/day (EASY TRA v3.6)	0.274
inhalative	systemic	long-term	2.013mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.342mg/m ³ (EASY TRA v3.6)	0.254

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.335mg/m ³ (EASY TRA v3.6)	0.063

4.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137
inhalative	systemic	long-term	3.354mg/m ³ (EASY TRA v3.6)	0.634

4.3.11. Worker exposure: Use of fuels (PROC16)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 5: Use as processing aid..

5.1. Title section

Exposure Scenario name	: Use as processing aid.
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Environment		
CS 1	Use at industrial site leading to inclusion into/onto article	ERC5
CS 2	Use of reactive processing aid at industrial site (no inclusion into or onto article)	ERC6b
CS 3	Use of functional fluid at industrial site	ERC7
Worker		
CS 4	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS 5	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 6	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 7	Chemical production where opportunity for exposure arises	PROC4
CS 8	Mixing or blending in batch processes	PROC5
CS 9	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 10	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 11	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 12	Use of blowing agents in manufacture of foam	PROC12
CS 13	Treatment of articles by dipping and pouring	PROC13

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CS 14	Tabletting, compression, extrusion, pelettisation, granulation	PROC14
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CS 15	Use as laboratory reagent	PROC15
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5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 12800 tonnes/year
Daily amount per site	: 64000 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 6,602.3 tonnes/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 200
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

5.2.2. Control of environmental exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 12800 tonnes/year
Daily amount per site	: 64000 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 6,602.3 tonnes/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater

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	sediment.
Emission days	: 200
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

5.2.3. Control of environmental exposure: Use of functional fluid at industrial site (ERC7)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 12800 tonnes/year
Daily amount per site	: 64000 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 6,602.3 tonnes/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 200
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics

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Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure : 89.999998 Pa	
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	

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Other conditions affecting workers exposure

Body parts exposed : Palms of both hands (480 cm²)

Indoor or outdoor use : Indoor

Professional or industrial settings : Industrial use

Temperature : 20 °C

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

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid mixture

Vapour pressure : 89.999998 Pa

Temperature : 20 °C

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Frequency and duration of use 480 min

Use frequency : 5 days/week

Technical and organisational conditions and measures

Local exhaust ventilation
Inhalation - minimum efficiency of 90 %

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Inhalation - minimum efficiency of 30 %

Other conditions affecting workers exposure

Body parts exposed : One hand face only (240 cm²)

Indoor or outdoor use : Indoor

Professional or industrial settings : Industrial use

Temperature : 20 °C

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

Product (article) characteristics

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Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	

Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	

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Local exhaust ventilation Inhalation - minimum efficiency of 90 %
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %

Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)

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Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 95 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	

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Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	

Local exhaust ventilation Inhalation - minimum efficiency of 90 %
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %
Other conditions affecting workers exposure
Body parts exposed : Palms of both hands (480 cm2)
Indoor or outdoor use : Indoor
Professional or industrial settings : Industrial use
Temperature : 20 °C

5.2.12. Control of worker exposure: Use of blowing agents in manufacture of foam (PROC12)

Product (article) characteristics
Covers percentage substance in the product up to 25 %.
Physical form of product : Liquid mixture
Vapour pressure : 89.999998 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Frequency and duration of use 480 min
Use frequency : 5 days/week
Technical and organisational conditions and measures
Local exhaust ventilation Inhalation - minimum efficiency of 90 %

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Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

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Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week

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Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

Release route	Release rate	Release estimation method
Water	0 %	Environmental Release Category (ERC)
Air	0.01 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001452mg/L	0.01
Freshwater sediment	0.0012796mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001328mg/kg dry weight	0.001
Soil	0.0018473mg/kg dry weight	0.105

5.3.2. Environmental release and exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Release route	Release rate	Release estimation method
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Water	0 %	Environmental Release Category (ERC)
Air	0.01 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001452mg/L	0.01
Freshwater sediment	0.0012796mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001328mg/kg dry weight	0.001
Soil	0.0018473mg/kg dry weight	0.105

5.3.3. Environmental release and exposure: Use of functional fluid at industrial site (ERC7)

Release route	Release rate	Release estimation method
Water	0 %	Environmental Release Category (ERC)
Air	0.01 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001452mg/L	0.01
Freshwater sediment	0.0012796mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001328mg/kg dry weight	0.001
Soil	0.0018473mg/kg dry weight	0.105

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.021mg/kg bw/day (EASY TRA v3.6)	0.008
inhalative	systemic	long-term	0.057mg/m ³ (EASY TRA v3.6)	0.011

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.165mg/kg bw/day (EASY TRA v3.6)	0.066
inhalative	systemic	long-term	0.403mg/m ³ (EASY TRA v3.6)	0.076

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.411mg/kg bw/day (EASY TRA v3.6)	0.165
inhalative	systemic	long-term	1.208mg/m ³ (EASY TRA v3.6)	0.228

			TRA v3.6)	
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5.3.7. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	2.012mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	2.012mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.646mg/kg bw/day (EASY TRA v3.6)	0.658
inhalative	systemic	long-term	0.805mg/m ³ (EASY TRA v3.6)	0.152

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

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	0.201mg/m ³ (EASY TRA v3.6)	0.038

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	0.403mg/m ³ (EASY TRA v3.6)	0.076

5.3.12. Worker exposure: Use of blowing agents in manufacture of foam (PROC12)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.206mg/kg bw/day (EASY TRA v3.6)	0.082
inhalative	systemic	long-term	0.805mg/m ³ (EASY TRA v3.6)	0.152

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	1.725mg/m ³ (EASY TRA v3.6)	0.326

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.411mg/kg bw/day (EASY TRA v3.6)	0.165
inhalative	systemic	long-term	2.012mg/m ³ (EASY TRA v3.6)	0.38

5.3.15. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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dermal	systemic	long-term	0.206mg/kg bw/day (EASY TRA v3.6)	0.082
inhalative	systemic	long-term	2.012mg/m ³ (EASY TRA v3.6)	0.38

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 6: Oil and gas exploration or production products..

6.1. Title section

Exposure Scenario name : Oil and gas exploration or production products.		
Environment		
CS 1	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	ERC4
Worker		
CS 2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4

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CS 6	Mixing or blending in batch processes	PROC5
CS 7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 8	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 10	Use as laboratory reagent	PROC15

6.2. Conditions of use affecting exposure

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

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 50 tonnes/year
Daily amount per site	: 166.666667 kg/day
Fraction of EU tonnage used in region:	: 1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 294.5 kg/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 300
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

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Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)

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Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week

Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa

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Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Inhalation - minimum efficiency of 70 %	

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Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 95 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 60 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 90 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	

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Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Industrial use
Temperature	: 20 °C

6.3. Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Water	0.1 %	Environmental Release Category (ERC)
Air	0.1 %	Environmental Release Category (ERC)
Soil	0.05 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0084779mg/L	0.565
Freshwater sediment	0.0746905mg/kg dry weight	0.566

Marine water	0.0008483mg/L	0.06
Marine sediment	0.0074739mg/kg dry weight	0.06
Soil	0.0001027mg/kg dry weight	0.006

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.034mg/kg bw/day (EASY TRA v3.6)	0.014
inhalative	systemic	long-term	0.096mg/m ³ (EASY TRA v3.6)	0.018

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.274mg/kg bw/day (EASY TRA v3.6)	0.11

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inhalative	systemic	long-term	0.958mg/m ³ (EASY TRA v3.6)	0.181
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6.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.686mg/kg bw/day (EASY TRA v3.6)	0.274
inhalative	systemic	long-term	2.013mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.438mg/m ³ (EASY TRA v3.6)	0.272

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	1.342mg/m ³ (EASY TRA v3.6)	0.254

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.335mg/m ³ (EASY TRA v3.6)	0.063

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.371mg/kg bw/day (EASY TRA v3.6)	0.549
inhalative	systemic	long-term	0.671mg/m ³ (EASY TRA v3.6)	0.127

6.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137
inhalative	systemic	long-term	3.354mg/m ³ (EASY TRA v3.6)	0.634

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 7: Use as laboratory chemical..

7.1. Title section

Exposure Scenario name	: Use as laboratory chemical.
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Environment		
CS 1	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)	ERC8b
Worker		
CS 2	Use as laboratory reagent	PROC15

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7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 1 tonnes/year
Daily amount per site	: 0.000548 kg/day
Fraction of EU tonnage used in region:	: 0.1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 0.056314 kg/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 365
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	

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Local exhaust ventilation Inhalation - minimum efficiency of 80 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Professional use
Temperature	: 20 °C

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b)

Release route	Release rate	Release estimation method
Water	2 %	Environmental Release Category (ERC)
Air	0.1 %	Environmental Release Category (ERC)
Soil	0 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0001458mg/L	0.01
Freshwater sediment	0.0012844mg/kg dry weight	0.01
Marine water	0.0000151mg/L	0.001
Marine sediment	0.0001333mg/kg dry weight	0.001
Soil	0.0000318mg/kg dry weight	0.002

7.3.2. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.206mg/kg bw/day (EASY TRA v3.6)	0.082
inhalative	systemic	long-term	4.025mg/m³ (EASY TRA v3.6)	0.761

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 8: Professional uses.

8.1. Title section

Exposure Scenario name : Professional uses.		
Environment		
CS 1	Widespread use leading to inclusion into/onto article (indoor)	ERC8c
CS 2	Widespread use leading to inclusion into/onto article (outdoor)	ERC8f
Worker		
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4
CS 6	Mixing or blending in batch processes	PROC5
CS 7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 8	Roller application or brushing	PROC10

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CS 9	Non-industrial spraying	PROC11
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8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Widespread use leading to inclusion into/onto article (indoor) (ERC8c)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 1000 tonnes/year
Daily amount per site	: 0.888889 kg/day
Fraction of EU tonnage used in region:	: 0.1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 12.9 kg/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.
Emission days	: 225
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

8.2.2. Control of environmental exposure: Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

Amount used (or contained in articles), frequency and duration of use/exposure	
Annual amount used in the EU	: 1000 tonnes/year
Daily amount per site	: 0.888889 kg/day
Fraction of EU tonnage used in region:	: 0.1
Maximum allowable site tonnage (MSafe)	: Daily amount per site 22.6 kg/day
Critical compartment for Msafe	: Risk from environmental exposure is driven by freshwater sediment.

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Emission days	: 225
Conditions and measures related to sewage treatment plant	
STP type	: none
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Professional use
Temperature	: 20 °C

8.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in

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closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week

Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 80 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Professional use
Temperature	: 20 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week

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Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 80 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Body parts exposed	: Palms of both hands (480 cm2)
Indoor or outdoor use	: Indoor
Professional or industrial settings : Professional use	
Temperature : 20 °C	

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 80 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Other conditions affecting workers exposure

Body parts exposed : Palms of both hands (480 cm²)

Indoor or outdoor use : Indoor

Professional or industrial settings : Professional use

Temperature : 20 °C

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

Product (article) characteristics

Physical form of product : Liquid mixture

Vapour pressure : 89.999998 Pa

Temperature : 20 °C

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Frequency and duration of use 60 min

Use frequency : 5 days/week

Technical and organisational conditions and measures

Local exhaust ventilation
Inhalation - minimum efficiency of 80 %

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Inhalation - minimum efficiency of 30 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Other conditions affecting workers exposure

Body parts exposed : Both hands (960 cm²)

Indoor or outdoor use : Indoor

Professional or industrial settings : Professional use

Temperature : 20 °C

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

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Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 480 min
Use frequency	: 5 days/week
Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 80 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection.	
Inhalation - minimum efficiency of 95 %	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands (960 cm ²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Professional use
Temperature	: 20 °C

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

Product (article) characteristics	
Physical form of product	: Liquid mixture
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Frequency and duration of use 240 min
Use frequency	: 5 days/week

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Technical and organisational conditions and measures	
Local exhaust ventilation Inhalation - minimum efficiency of 80 %	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable respiratory protection. Inhalation - minimum efficiency of 95 %	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of 98 %	
Other conditions affecting workers exposure	
Body parts exposed	: Both hands and upper wrists (1500 cm²)
Indoor or outdoor use	: Indoor
Professional or industrial settings	: Professional use
Temperature	: 20 °C

8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Widespread use leading to inclusion into/onto article (indoor) (ERC8c)

Release route	Release rate	Release estimation method
Water	2 %	Environmental Release Category (ERC)
Air	2.2 %	Environmental Release Category (ERC)
Soil	0.5 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0010341mg/L	0.069
Freshwater sediment	0.0091101mg/kg dry weight	0.069
Marine water	0.000104mg/L	0.007
Marine sediment	0.0009158mg/kg dry weight	0.007
Soil	0.0000318mg/kg dry weight	0.002

8.3.2. Environmental release and exposure: Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

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Release route	Release rate	Release estimation method
Water	1 %	Environmental Release Category (ERC)
Air	2.2 %	Environmental Release Category (ERC)
Soil	0.5 %	Environmental Release Category (ERC)

Protection Target	Exposure estimate	RCR
Freshwater	0.0005896mg/L	0.039
Freshwater sediment	0.0051948mg/kg dry weight	0.039
Marine water	0.0000595mg/L	0.004
Marine sediment	0.0005243mg/kg dry weight	0.004
Soil	0.0000318mg/kg dry weight	0.002

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.165mg/kg bw/day (EASY TRA v3.6)	0.066
inhalative	systemic	long-term	2.013mg/m ³ (EASY TRA v3.6)	0.38

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.411mg/kg bw/day (EASY TRA v3.6)	0.165
inhalative	systemic	long-term	2.415mg/m ³ (EASY TRA v3.6)	0.457

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	0.805mg/m ³ (EASY TRA v3.6)	0.152

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.823mg/kg bw/day (EASY TRA v3.6)	0.329
inhalative	systemic	long-term	0.805mg/m ³ (EASY TRA v3.6)	0.152

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

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343mg/kg bw/day (EASY TRA v3.6)	0.137
inhalative	systemic	long-term	1.677mg/m ³ (EASY TRA v3.6)	0.317

8.3.8. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.646mg/kg bw/day (EASY TRA v3.6)	0.658
inhalative	systemic	long-term	1.006mg/m ³ (EASY TRA v3.6)	0.19

8.3.9. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.536mg/kg bw/day (EASY TRA v3.6)	0.214
inhalative	systemic	long-term	1.006mg/m ³ (EASY TRA v3.6)	0.19

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

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ES 9: Wide dispersive outdoor use of long-life articles and materials with low release Plastic articles (AC13); Consumer uses (SU21).

9.1. Title section

Exposure Scenario name	: Wide dispersive outdoor use of long-life articles and materials with low release
Structured Short Title	: Plastic articles (AC13); Consumer uses (SU21).

Environment		
CS 1	Widespread use of articles with low release (outdoor)	ERC10a
Consumer		
CS 2	Plastic articles	AC13

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor) (ERC10a)

9.2.2. Control of consumer exposure: Plastic articles (AC13)

Plastic, larger articles (plastic chair, PVC-flooring, lawn mower, PC) (AC13-1)

Product (article) characteristics	
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

9.3. Exposure estimation and reference to its source

Release estimation method:

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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

ES 10: Wide dispersive indoor use of long-life articles and materials with low releasePlastic articles (AC13); Consumer uses (SU21).

10.1. Title section

Exposure Scenario name	: Wide dispersive indoor use of long-life articles and materials with low release
Structured Short Title	: Plastic articles (AC13); Consumer uses (SU21).

Environment		
CS 1	Widespread use of articles with low release (indoor)	ERC11a
Consumer		
CS 2	Plastic articles	AC13

10.2. Conditions of use affecting exposure

10.2.1. Control of environmental exposure: Widespread use of articles with low release (indoor) (ERC11a)

10.2.2. Control of consumer exposure: Plastic articles (AC13)

Plastic, larger articles (plastic chair, PVC-flooring, lawn mower, PC) (AC13-1)

Product (article) characteristics	
Vapour pressure	: 89.999998 Pa
Temperature	: 20 °C

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10.3. Exposure estimation and reference to its source

Release estimation method:

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

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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

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