Scharlau

Safety data sheet according to 1907/2006/EC, Article 31 Commission regulation (EU) 2020/878

Printing date 13.03.2023

Version number 7.0 (replaces version 6.0)

Revision: 13.03.2023

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

- · 1.1 Product identifier
- · Trade name: Chloroform, stabilized with ethanol, Multisolvent® HPLC grade ACS ISO UV-VIS
- · Article number: CL0218
- CAS Number: 67-66-3
- *EC number:* 200-663-8
- Index number: 602-006-00-4
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the preparation: Laboratory reagent
- · 1.3 Details of the supplier of the safety data sheet

• *Manufacturer/Supplier:* Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

Regional representation: Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

- · Further information obtainable from: technical department
- **1.4 Emergency telephone number:** Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008



skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

health hazard

Carc. 2H351Suspected of causing cancer.Repr. 2H361d Suspected of damaging the unborn child.STOT RE 1H372Causes damage to the central nervous system, the kidneys, the liver and the
respiratory system through prolonged or repeated exposure.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- · General information:
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed The main symptoms are described for different cases of contact: Skin, eyes, inhalation and ingestion.
- **4.3** Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Fire may cause evolution of: Hydrogen chloride (HCl)

Phosgene gas

- · 5.3 Advice for firefighters
- **Protective equipment:** In the work of extinction it is necessary to provide respiratory protection and full chemical protective clothing.

Cool exposed containers with water spray or mist.

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Use respiratory protective device against the effects of fumes/dust/aerosol. Evacuate and restrict access.

Isolate leaks as long as it does not pose an additional risk to the people who perform this function. Ensure adequate ventilation

- 6.2 Environmental precautions: Do not allow to penetrate the ground/soil. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). (Contd. on page 4)

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Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles. Avoid breathing mist/vapours/spray. Keep away from heat and sources of ignition. Ensure good ventilation/exhaustion at the workplace. Do not eat, drink or smoke during use. Wash hands after any manipulation. Information about fire - and explosion protection: No special measures required. 7.2 Conditions for safe storage, including any incompatibilities · Storage: Requirements to be met by storerooms and receptacles: Store in a cool, dry, well-ventilated place. Store only in unopened original receptacles. Provide ventilation for receptacles. Provide floor trough without outlet. Provide solvent resistant, sealed floor. · Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidising agents. · Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Avoid sources of heat, radiation, static electricity and contact with food. Protect from humidity and water. Protect from exposure to the light. Keep container tightly sealed. See product's label for recommended storage temperature. · 7.3 Specific end use(s) No further relevant information available. **SECTION 8: Exposure controls/personal protection**
 - · 8.1 Control parameters
 - Ingredients with limit values that require monitoring at the workplace:

67-66-3 trichloromethane

WEL Long-term value: 9.9 mg/m³, 2 ppm

Sk DNELs

DNEL consumer, prolonged. Systematic effects: Inhalative - 0.18 mg/m3 DNEL worker, acute. Systematic effects: Inhalative - 333 mg/m3 DNEL worker, cronic. Systematic effects: Inhalative - 2.5 mg/m3 DNEL worker, cronic. Local effects: Inhalative - 2.5 mg/m3

DNEL worker, cronic. Systematic effects: Dermic - 0.94 mg/kg body weight **PNECs**

PNEC (Fresh water): 0.146 mg/L

PNEC (Sea water): 0.015 mg/L

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PNEC (Residual water depuration system): 0.048 mg/l PNEC (Freshwater sediments): 0.45 mg/kg PNEC (Seawater sediments): 0.09 mg/kg

PNEC (Soil): 0.56 mg/kg

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- · Physical state
- · Colour:
- · Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
 Flammability
- · Lower and upper explosion limit
- · Lower:

Fluid Colourless Sweetish Not determined. -63 °C

62 °C Not applicable.

Not determined.

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· Upper:	Not determined.			
· Flash point:	Not applicable.			
Ignition temperature:	982 °C			
Decomposition temperature:	Not determined.			
· pH	Not determined.			
· Viscosity:				
Kinematic viscosity	Not determined.			
· Dynamic at 20 °C:	0.56 mPas			
· Solubility				
· water at 23 °C:	8.7 g/l			
· Partition coefficient n-octanol/water (log				
value)	0.29447			
 Vapour pressure at 20 °C: 	211 hPa			
Density and/or relative density				
Density at 20 °C:	1.49 g/cm ³			
Relative density	Not determined.			
Vapour density	Not determined.			
. 9.2 Other information				
· Appearance:				
· Form:	Fluid			
Important information on protection of health				
and environment, and on sefety				
· Auto-ignition temperature:	Not determined			
· Explosive properties:	Product does not present an explosion bazard			
· Molecular weight	119 38 g/mol			
· Change in condition	i i o.oo g/moi			
· Evaporation rate	Not determined			
 Information with regard to physical haz 	ard and a second s			
classes				
· Explosives	Void			
· Flammable gases	Void			
· Aerosols	Void			
· Oxidising gases	Void			
· Gases under pressure	Void			
· Flammable liquids	Void			
· Flammable solids	Void			
Self-reactive substances and mixtures	Void			
· Pyrophoric liquids	Void			
· Pyrophoric sollas	Void			
· Sem-neating substances and mixtures	Void			
· Substances and mixtures, which emit	Void			
Tiammable gases in contact with Water	Void			
• Oxiaising Ilquias				
· Uxiaising sollas	VOID			
	VOID			
· Corrosive to metals	VOID			
· Desensitised explosives	Vola			

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Stable under normal conditions. If used according to the regulation no decomposition occurs.

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- 10.2 Chemical stability
 Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** Heat, open flames and sparks Exposure to light Exposure to moisture.
- **10.5 Incompatible materials:** Strong oxidizing agents. Acids
- Various metals
- 10.6 Hazardous decomposition products:
- Carbon oxides
- Hydrogen chloride (HCI) Phosgen

SECTION 11: Toxicological information

- \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Harmful if swallowed.
- Toxic if inhaled.

LD/LC50 values relevant for classification:

Oral LD50 908 mg/kg (rat) Dermal LD50 3,890 mg/kg (rabbit)

Inhalative LC50/4 h 9.2 mg/l (rat) *Skin corrosion/irritation* Skin - Rabbit Result: Irritating to skin - 24 h

Result: Slight irritation Remarks: (IUCLID) Drying-out effect resulting in rough and chapped skin.

Causes skin irritation.

- Serious eye damage/irritation Eyes - Rabbit Resul: Irritating to eyes.
- Remarks: (ECHA) Causes serious eye irritation.
- Respiratory or skin sensitisation
 Maximisation test Guinea pig
 Result: negative (ECHA)

• Germ cell mutagenicity Reverse mutation assay Salmonella typhimurium Result: negative Reverse mutation assay Escherichia coli Result: negative Rat - Bone marrow Result: negative Rat - other cell types Result: negative

regulation (LO

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Carcinogenicity
 IARC: 2B Group: Possibly carcinogenic to humans
 Suspected of causing cancer.

· Reproductive toxicity Suspected of damaging the unborn child.

- STOT-single exposure May cause drowsiness or dizziness
- STOT-repeated exposure

Causes damage to the central nervous system, the kidneys, the liver and the respiratory system through prolonged or repeated exposure.

- 11.2 Information on other hazards
- Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxicity to fish

LC50 - Oncorhynchus mykiss (Rainbow trout) - 18,2 mg/L - 96 h

NOEC - Oryzias latipes (Carpa) - 1.463 mg/L (270h)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (large sea flea) - 152.5 mg/L - 48 h

NOEC - Daphnia magna (large sea flea) - 6.3 mg/L - 21h

Toxicity to algae

ErC50 static test - Chlamydomonas reinhardtii (green algae) - 13,3 mg/L - 72 h

12.2 Persistence and degradability

Result: 0 % (Exposure time: 14 days) - OECD 301C

Not easily biodegradable

- 12.3 Bioaccumulative potential Partition coeficient n-octanol/water: log Pow: 1.97 (experimental) Bioconcentration factor (BCF): 13 Non significant accumulation in organisms
- **12.4 Mobility in soil** Surface tension: 27 mN/m Log Koc: 2.27 (25°C) Henry's constant: 310 Pa·m3/mol (S °C)
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- Additional ecological information:
- General notes:

Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Contact manufacturer for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Dispose of packaging according to regulations on the disposal of packagings. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14	4.1	UN	number	or IL) number
-					

- · ADR, IMDG, IATA
- 14.2 UN proper shipping name
- · ADR
- · IMDG, IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA

UN1888

1888 CHLOROFORM CHLOROFORM

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- · Class · Label
- · 14.4 Packing group
- · ADR, IMDG, IATA
- · 14.5 Environmental hazards:
- · Marine pollutant:
- 14.6 Special precautions for user
- Hazard identification number (Kemler code): 60
- · EMS Number:
- · Segregation groups
- Stowage Category
- · Stowage Code
- 14.7 Maritime transport in bulk according to IMO instruments

6.1 Toxic substances.6.1

III

No Warning: Toxic substances. **de):** 60 F-A,S-A

(SGG10) Liquid halogenated hydrocarbons

SW2 Clear of living quarters.

Not applicable.

· Transport/Additional information:

· ADR	
 Limited quantities (LQ) 	5L
Transport category	2
 Tunnel restriction code 	E
· UN "Model Regulation":	UN 1888 CHLOROFORM, 6.1, III

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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I -
- Seveso category H2 ACUTE TOXIC
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: product safety department
- · Contact: msds@scharlab.com

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Carc. 2: Carcinogenicity - Category 2 Repr. 2: Reproductive toxicity - Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

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Annex: Exposure scenario 1

- · 1 Short title of the exposure scenario Industrial use
- Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Process category

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

· Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

- · Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- · Duration and frequency Emission days (days/year): 87
- Physical parameters
- · Physical state Fluid
- Concentration of the substance in the mixture Raw material.

Used amount per time or activity 3480 tons per year

Other operational conditions

Other operational conditions affecting environmental exposure No special measures required.

Other operational conditions affecting worker exposure Keep locked up.

Ensure adequate ventilation, especially in closed rooms. Avoid contact with the skin.

- · Other operational conditions affecting consumer exposure Keep out of the reach of children.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

· Technical protective measures

Ensure that suitable extractors are available on processing machines

Personal protective measures

Use suitable respiratory protective device in case of insufficient ventilation. Take care of good cleanliness and tidiness.

Do not inhale gases / fumes / aerosols.

- Avoid contact with the skin.
- Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• *Measures for consumer protection* Ensure adequate labelling.

Keep locked up and out of the reach of children.

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Scharlau according to 1907/2006/EC, Article 31 Commission regulation (EU) 2020/878 Printing date 13.03.2023 Version number 7.0 (replaces version 6.0) Revision: 13.03.2023 Trade name: Chloroform, stabilized with ethanol, Multisolvent® HPLC grade ACS ISO UV-VIS (Contd. of page 11) Environmental protection measures Use appropriate container to avoid environmental contamination. · Air Exhaust air is introduced into the incinerator. Exhaust air is introduced into the adsorption tower. · Water The product should not be released into water without pretreatment. An on-site wastewater treatment is recommended. The typical site treatment technology of wastewater achieves removal efficiency (%): (85.6) · Soil No special measures required. · Disposal measures Disposal must be made according to official regulations. Ensure that waste is collected and contained. Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Waste type Partially emptied and uncleaned packaging 3 - Exposure estimation · Worker (dermal) The exposure estimation was carried out in accordance with ECETOC TRA. Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC 3: 0.1 - 0.5 (mg/kg/d) PROC 8a: 0.1 - 0.5 (mg/kg/d) PROC 8b: 0.1 - 0.5 (mg/Kg/d) PROC 9: 0.1 - 0.5 (mg/kg/d) Worker (inhalation) The exposure estimation was carried out in accordance with ECETOC TRA. Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC 3: 0.1 - 0.5 (mg/m3) PROC 8a: 0.1 - 0.5 (mg/m3) PROC 8b: 0.75 - 1 (mg/m3) PROC 9: 0.1 - 0.5 (mg/m3) Environment The estimation of environmental exposure was carried out in accordance with EUSES. Detailed information on the estimation of the environmental exposure can be found at http:// ecb.jrc.ec.europa.eu/euses/. Concentration / maximum emission: Seawater 0.015 mg/l Concentration / maximum emission: Freshwater 0.146 mg/l · Consumer Not relevant for this Exposure Scenario. · 4 - Guidance for downstream users Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

For the risk assessment, the tools recommended by ECHA can be used.

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Annex: Exposure scenario 2

- · 1 Short title of the exposure scenario Laboratory use
- Sector of Use
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- SU24 Scientific research and development
- Product category PC21 Laboratory chemicals
- Process category PROC15 Use as laboratory reagent
- Environmental release category
 ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
 Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- *Duration and frequency* 8hrs (full working shift). Emission days (days/year): 365
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure
- Keep locked up.

Ensure adequate ventilation, especially in closed rooms. Avoid contact with the skin.

- · Risk management measures
- · Worker protection
- Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Technical protective measures

Ensure that suitable extractors are available on processing machines

- Personal protective measures
- Use suitable respiratory protective device in case of insufficient ventilation.
- Take care of good cleanliness and tidiness.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the skin.
- Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

- Environmental protection measures
 Use appropriate container to avoid environmental contamination.
- · Air No special measures required.
- Water No special measures required.
- · Soil No special measures required.

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• **Disposal measures** Disposal must be made according to official regulations. Ensure that waste is collected and contained.

· Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · 3 Exposure estimation
- · Worker (dermal)

The exposure estimation was carried out in accordance with ECETOC TRA. Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC 15: 0.1 - 0.5 (mg/kg/d)

· Worker (inhalation)

The exposure estimation was carried out in accordance with ECETOC TRA. Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC 15: 0.1 - 0.5 (mg/m3)

- Consumer Not relevant for this Exposure Scenario.
- 4 Guidance for downstream users
 Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

For the risk assessment, the tools recommended by ECHA can be used.