

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.10.2017

Version number 1

Revision: 05.10.2017

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

- **Product identifier**
- **Trade name:** **MERPIN 9003**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Auxiliary
- **Uses advised against** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Carpetex Lederhilfsmittel GmbH
Am Selder 25
D-47906 Kempen
GERMANY
Tel.: 02152 8999 55
Fax: 02152 51 67 51
E-Mail: info@carpetex.com
- **Further information obtainable from:** Safety and health group
- **Emergency telephone number:**
Giftinformationszentrum Nord 24h-Auskunft: +49 551 19240
This number is serviced during office hours: +49 2152 8999 55

2 Hazards identification

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
aqueous solution, contains:
sodium mercaptoacetate
- **Hazard statements**
H302+H312 Harmful if swallowed or in contact with skin.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** aqueous solution

- **Dangerous components:**

CAS: 367-51-1	sodium mercaptoacetate	25-50%
EINECS: 206-696-4	☠ Acute Tox. 3, H301; ☠ Met. Corr.1, H290; ☠ Acute Tox. 4, H312; Skin Sens. 1, H317	
Reg.nr.: 01-2119968564-24-xxxx		

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
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.
- **After swallowing:**
Rinse mouth.
Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
Risk of aspiration.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Organic decomposition products
Carbon oxides (CO_x)
Sulphur dioxide (SO₂)
- **Advice for firefighters**
- **Protective equipment:** Use suitable breathing apparatus if necessary.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Wear protective clothing.
Avoid contact with the eyes and skin.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Wear protective clothing.
 Do not eat, drink or smoke in working area.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** Combustible liquid.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

• DNELs

367-51-1 sodium mercaptoacetate

Dermal	DNEL (Long-term, systemic effects)	2.06 mg/kg/d (worker)
	DNEL (Long-term, local effects)	0.011 mg/kg/d (worker)
	DNEL (Acute, systemic effects)	0.05 mg/kg/d (consumer)
Inhalative	DNEL (Long-term, systemic effects)	1.41 mg/m ³ (worker)

• PNECs

367-51-1 sodium mercaptoacetate

PNEC	0.038 mg/l (fresh water)
	0.0038 mg/l (seawater)
	0.38 mg/l (water (intermittent release))

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **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.

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Do not eat, drink, smoke or sniff while working.

The recommended specification of the protective clothing articles is to be chosen according to the duration of the exposition, the concentration and the amount of the dangerous substances at the working environment. Seek advice of the suppliers.

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.

Protection of hands:


Protective gloves

Material of gloves

e.g. Nitrile rubber, NBR

 Recommended thickness of the material: ≥ 0.5 mm

Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 120 minutes (Permeation according to EN 374 Part 3: Level 4).

Eye protection:


Tightly sealed goggles (EN 166).

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:

Form:	Solution
Colour:	Violet
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value (10 g/l) at 20 °C:	6.5 - 8.5
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Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

Flash point:	Undetermined.
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Flammability (solid, gas):	Not applicable.
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Ignition temperature:

Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Product is not selfigniting.
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Explosive properties:	Product does not present an explosion hazard.
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Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not determined.
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Density at 20 °C:	1.2 g/cm ³
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· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
Water:	56.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** Product is stable under normal ambient conditions.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity**

Harmful if swallowed or in contact with skin.

- **LD/LC50 values relevant for classification:**

Oral	LD50	301-2000 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritating effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **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.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.

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- **Persistence and degradability**
readily biodegradable
Degradation rate >70% Time (d) 28 days Method OECD 301D
- **Other information:**
referring to Thioglycolic acid
This statement was deduced from products with a similar structure or composition.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Waste disposal key:**
Determine wastes code in compliance with local waste management company according the European Waste Catalogue (EWC).
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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UN "Model Regulation": Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Relevant phrases**

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H317 May cause an allergic skin reaction.

- **Department issuing SDS:** Safety and Health group

- **Contact:** Markus Hoffmann

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Sens. 1: Skin sensitisation – Category 1

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Anhang zum**Sicherheitsdatenblatt**

gemäß 1907/2006/EG, (VO (EU) Nr. 453/2010)

Druckdatum: 11.01.2017

überarbeitet am: 11.01.2017

Stoffsicherheitsbeurteilung**Natriumthioglykolat****Seite 1/14****Substance name: Sodium thioglycolate**

CAS number: 367-51-1

EC number: 206-696-4

Please note, that the exposure scenarios are for the pure substance.

For further information, please contact us at info@wall-chemie.com Keyword REACH NaTG - Exposure Scenarios

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Life Cycle description

Manufacture

ERC 1: Manufacture of substances

PROC 3: Use in closed batch process (synthesis or formulation)

PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises

Manufacture	Environmental release category:	Process category:
Manufactureing	ERC 1	PROC 3, PROC 4

Manufacture - ERC 1

Closed system, no release to water, air or soil.

Waste containing substance is incinerated on site. No waste containing NaTG is expected to be generated from incineration.

Worker contributing scenario 1: Manufacture of the substance (PROC 3)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Closed batch process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: no [Effectiveness Inhal: 0%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with specific activity training) [Effectiveness Dermal: 95%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Worker contributing scenario 2: Manufacture of the substance (PROC 4)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]

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gemäß 1907/2006/EG, (VO (EU) Nr. 453/2010)

Druckdatum: 11.01.2017

überarbeitet am: 11.01.2017

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- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]
- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Formulation

ERC 2: Formulation of preparations

PROC 3: Use in closed batch process (synthesis or formulation)

PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Formulation	Environmental release category:	Process category:
Formulation of aqueous mixtures	ERC 2	PROC 3, PROC 5, PROC 8a, PROC 9

Formulation of aqueous mixtures – ERC 2

Formulation refers to the mixing of the raw material with an adequate amount of water setting different concentrations properly and filling into containers in dedicated facilities.

No release to water, air or soil.

Substance in waste comes from cleaning fluids, if at all (release factor to waste from the process: 1%).

Worker contributing scenario 1: Formulation of the product (aqueous solution) (PROC 3)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Closed batch process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374) [Effectiveness Dermal: 80%] [TRA Worker v3]
- Respiratory Protection: No [Effectiveness Inhal: 0%] [TRA Worker v3]

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Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Worker contributing scenario 2: Mixing in a batch process (PROC 5)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with specific activity training) [Effectiveness Dermal: 95%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Worker contributing scenario 3: Transfer of the substance (large amounts) (PROC 8a)

Conditions of use [Method] Covers also transfer of process waste to storage containers. [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 4: Transfer of the substance (small amounts) (PROC 9)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

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überarbeitet am: 11.01.2017

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- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Enhanced general ventilation (5-10 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Uses at industrial sites

- ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles
- ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)
- ERC 6b: Industrial use of reactive processing aids
- PROC 3: Use in closed batch process (synthesis or formulation)
- PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- PROC 13: Treatment of articles by dipping and pouring
- PROC 15: Use as laboratory reagent
- PC 23: Leather tanning, dye, finishing, impregnation and care products

Uses at industrial sites	Environmental release category:	Process category:	Product category formulated:
Leather processing	ERC 4	PROC 8a, PROC 8b, PROC 9, PROC 15	PC 23
Leather processing – Use as an intermediate at industrial sites	ERC 6a	PROC 3, PROC 8b, PROC 15	PC 23
Leather processing – Use as processing aid at industrial sites	ERC 6b	PROC 8a, PROC 8b, PROC 9, PROC 10	PC 23

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Druckdatum: 11.01.2017

überarbeitet am: 11.01.2017

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Leather processing – ERC 4

The processing of leather is a well-controlled industrial approach. This scenario covers the industrial use of NaTG in the processing of leather.

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Transfer of the substance (large amounts and non-dedicated facilities) (PROC 8a)

Conditions of use Covers also transfer of process waste to storage containers. [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 2: Transfer of the substance (large amounts and dedicated facilities) (PROC 8b)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 95%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 95%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 3: Filling small Containers in dedicated lines (PROC 9)

Conditions of use [Method]

Product (article) characteristics

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überarbeitet am: 11.01.2017

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- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Worker contributing scenario 4: Laboratory agent (PROC 15)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Leather processing - Use as an intermediate at industrial sites ERC 6a

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Mixing and dispersing in a closed batch process (PROC 3)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Closed batch process with occasional controlled exposure [TRA Worker v3]

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Druckdatum: 11.01.2017

überarbeitet am: 11.01.2017

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- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]
- Conditions and measures related to personal protection, hygiene and health evaluation**
- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]
- Other conditions affecting workers exposure**
- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Worker contributing scenario 2: Batch loading of equipment (manual, dedicated) (PROC 8b)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 95%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 95%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 3: Laboratory agent (PROC 15)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]

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- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Leather processing – Use as a processing aid at industrial sites – ERC 6b

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Transfer of the substance (large amounts and non-dedicated facilities) (PROC 8a)

Conditions of use Covers also transfer of process waste to storage containers. [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 2: Transfer of the substance (large amounts and dedicated facilities) (PROC 8b)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 95%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 95%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands (960 cm²) [TRA Worker v3]

Worker contributing scenario 3: Filling small Containers in dedicated lines (PROC 9)

Conditions of use [Method]

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Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 4 hours [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: Semi-closed process with occasional controlled exposure [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Worker contributing scenario 4: Leather treatment by dipping and pouring (PROC 13)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Enhanced general ventilation (5-10 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 90%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 90%] [TRA Worker v3]
- Occupational Health and Safety Management System: Advanced [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with specific activity training) [Effectiveness Dermal: 95%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: Two hands face (480 cm²) [TRA Worker v3]

Uses by professional workers

ERC 8a: Wide dispersive indoor use of processing aids in open systems

ERC 8d: Wide dispersive outdoor use of processing aids in open systems

PROC 11: Non industrial spraying

PROC 15: Use as laboratory reagent

PC 0: Other

PC 14: Metal surface treatment products, including galvanic and electroplating products

PC 21: Laboratory chemicals

PC 35: Washing and cleaning products (including solvent based products)

SU 9: Manufacture of chemicals

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SU 24: Scientific research and development

Uses by professional workers	Environmental release category:	Process category:	Product category formulated:	Sector of end use:
Production of anaerobic culture medium	ERC 8d, ERC 8a	PROC 15	PC 21, PC 0	SU 24
Rust remover / Cleaning agent	ERC 8d, ERC 8a	PROC 11	PC 14, PC 35	SU 9

Production of anaerobic culture medium – ERC 8d, ERC 8a

No direct release to water, air or soil.

No direct release to waste of NaTG can be assumed (Release factor to waste from the process: 0%).

Worker contributing scenario 1: Well controlled production of anaerobic culture media (PROC 15)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: Substance as such [TRA Worker v3]

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

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 80%] [TRA Worker v3]
- Local exhaust ventilation (for dermal): yes [Effectiveness Dermal: 80%] [TRA Worker v3]
- Occupational Health and Safety Management System: Basic [TRA Worker v3]

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

- Dermal Protection: Yes (chemically resistant gloves conforming to EN374 with basic employee training) [Effectiveness Dermal: 90%] [TRA Worker v3]
- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]
- Skin surface potentially exposed: One hand face only (240 cm²) [TRA Worker v3]

Rust remover / Cleaning agent – ERC 8d, ERC 8a

No direct release to water, air or soil.

No direct release of NaTG can be assumed (Release factor to waste from the process: 0%)

Worker contributing scenario 1: Cleaning of metal surfaces (PROC 11)

Conditions of use [Method]

Product (article) characteristics

- Concentration of substance in mixture: 5-25% [TRA Worker v3]

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

- Duration of activity: < 1 hour [TRA Worker v3]

Technical and organisational conditions and measures

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überarbeitet am: 11.01.2017

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- General ventilation: Good general ventilation (3-5 air changes per hour) [TRA Worker v3]
- Containment: No [TRA Worker v3]
- Local exhaust ventilation: yes [Effectiveness Inhal: 80%] [TRA Worker v3]
- Occupational Health and Safety Management System: Basic [TRA Worker v3]

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

- Respiratory Protection: Yes (Respirator with APF of 10) [Effectiveness Inhal: 90%] [TRA Worker v3]

Other conditions affecting workers exposure

- Place of use: Indoor [TRA Worker v3]
- Process temperature (for liquid): ≤ 40 °C [TRA Worker v3]

Consumer Uses

ERC 8a: Wide dispersive indoor use of processing aids in open systems

PC 14: metal surface treatment products, including galvanic and electroplating products

PC 35: Washing and cleaning products (including solvent based products)

Consumer Uses	Environmental release category:	Product category formulated:
Rust remover / Cleaning agent	ERC 8a	PC 14, PC 35

Rust remover / Cleaning agent – ERC 8a

No direct release to water, air or soil.

No direct release of NaTG can be assumed (Release factor to waste from the process: 0%).

Consumer contributing scenario 1: Use of a rust remover / cleaning agent (PC 35)

Conditions of use

Not defined.

Conclusion on risk characterisation:

Chronic exposure via the dermal or inhalative route can be considered as negligible.

Risk characterisation related to combined exposure

Human health

Simultaneous exposure scenarios for humans are not relevant here.

Environment (combined for all emission sources)

2.1. All uses (regional scale)

2.1.1. Total releases

The total releases to the environment from all the exposure scenarios covered are presented in the table below.

This is the sum of the releases to the environments from all exposure scenarios addressed.

Table 1. Total releases to the environment per year from all life cycle stages:

Release route	Total releases per year
Water	0 kg/year
Air	1.7E4 kg/year

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Soil	850 kg/year
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2.1.2. Regional exposure

Environment

The regional predicted environmental concentration (PEC regional) and the related risk characterisation ratios when a PNEC is available are presented in the table below.

The PEC regional have been estimated with EUSES.

Table 2. Predicted regional exposure concentrations (Regional PEC)

Protection target	Regional PEC	RCR
Freshwater	6.416E-5 mg/L	< 0.01
Sediment (freshwater)	1.976E-4 mg/kg dw	
Marine water	6.316E-6 mg/L	< 0.01
Sediment (marine water)	1.977E-5 mg/kg dw	
Air	1.018E-9 mg/m ³	
Agricultural soil	1.335E-4 mg/kg dw	

Man via environment

The exposure to man via the environment from regional exposure and the related risk characterisation ratios are presented in the table below. The exposure concentration via inhalation is equal to the PEC air.

Table 3. Regional exposure to man via the environment

Route	Regional exposure	RCR
Inhalation	1.018E-9 mg/m ³	
Oral	2.047E-5 mg/kg bw/day	

2.2. Local exposure due to all wide dispersive uses

Environment

The predicted local environmental concentrations (PEC local) based on the releases from all widespread uses are reported in the table below together with the risk characterisation ratio when a PNEC is available. Those exposure estimates have been obtained with EUSES.

Table 4. Predicted environmental concentration and risk characterisation ratio for the environment due to all wide dispersive uses

Protection target	PEC local due to all wide dispersive uses	RCR
Freshwater		
Marine water		
Sewage treatment plant		
Agricultural soil		

Man via environment

The exposure to man via the environment based on the releases from all widespread uses are reported in the table below together with the risk characterisation ratio when a DNEL is available. Those exposure estimates have been obtained with EUSES.

Table 5. Exposure and risk characterisation ratio for man via the environment due to all wide dispersive uses

Protection target	Exposure concentration due to all wide dispersive uses	RCR
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2.3. Local exposure due to combined uses at a site

Simultaneous exposure of environment is not relevant here.

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No uses advised against are identified.

Exposure controls / personal protection**Exposure controls**

General protective measures: Provide appropriate exhaust ventilation at machinery

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of insufficient ventilation, wear self contained breathing apparatus.

Hand protection: Splash contact, intermittent and prolonged : Neoprene or Butyl rubber gloves (tested EN 374) with thickness: 0,75 mm

Eye protection: Safety glasses

Skin and body protection: At the workplace: Combination with delayed penetration
Intervention at incident: overalls with hood, impervious clothing