

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 14.10.2025

Version number 113.13 (replaces version 113.12)

Revision: 09.10.2025

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

- 1.1 Product identifier

- Trade name Defoamer 51

- Other trade names:

- UFI: JJ90-C0EN-T00H-8K3F

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

Restrictions on use:

Restrictions on use according to REGULATION (EC) No 1907/2006 ANNEX XVII apply to this product (see section 15).

- Application of the substance / the mixture Defoamers, Anti-foaming agent

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

PERKUTE - Maschinenbau GmbH
Düsterbergstr. 10
D-48432 Rheine

Tel. ++ 49 / 59 71 / 80 81 68 - 0

Fax ++ 49 / 59 71 / 80 81 68 - 1

E-Mail: info@perkute.de

- Informing department: Product safety department

- 1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

* SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

- 2.2 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:

2-methyl-2H-isothiazol-3-one

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)

- Hazard statements

H317 May cause an allergic skin reaction.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- Additional information:

According to the current state of knowledge, no synthetic polymer microparticles > 0.01% are contained.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- Determination of endocrine-disrupting properties** Not applicable.

* SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**- Description:** Mixture**- Dangerous components:**

CAS: 9005-00-9 Polymer	Alpha-Octadecyl-Omega-Hydroxy-Polyglyc olether Aquatic Acute 1, H400 (M=1); Aquatic Chronic 3, H412	1-5%
CAS: 69011-36-5 NLP: 500-241-6 Reg.nr.: 01-2119976362-32	Isotridecanol, ethoxylated Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1; H318: C ≥ 10 %	1-5%
CAS: 2682-20-4 EINECS: 220-239-6 Reg.nr.: 01-2120764690-50	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0,0015 %	<0,1%
EC number: 911-418-6 Reg.nr.: 01-2120764691-48	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H- isothiazol-3-one (3:1 mixture) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317: C ≥ 0,0015 % substance with a Community workplace exposure limit	<0,01%

- SVHC

This preparation does not contain any substances of very high concern (SVHC) in a concentration of ≥ 0.1 % according to Regulation (EC) 1907/2006, Article 57.

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

* SECTION 4: First aid measures

- 4.1 Description of first aid measures**- General advice:**

If unconscious, position and transport in stable lateral position.

In case of persistent symptoms receive medical treatment.

- After inhalation Supply fresh air; consult doctor in case of symptoms.**- After skin contact**

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

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- **After eye contact**
Rinse immediately opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Product is non-flammable. Use fire fighting measure that suit the surroundings.
Coordinate fire extinguishing measures with the surroundings.
- **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Nitrogen oxides (NOx)
carbon monoxide (CO)
carbon dioxide (CO2)
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear self-contained breathing apparatus.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains.
Cool endangered containers in the vicinity with a water spray jet.

* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Put on protective equipment and keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.
In case of release of larger quantities, inform competent authorities.
- **6.3 Methods and material for containment and cleaning up:**
Clean the accident area carefully; suitable cleaners are:
warm water and cleaning agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Dispose of contaminated material as waste according to point 13.
e.g. active foam cleaner, neutral
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

* SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Stir up before use.

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities

- **Storage** Store in cool, dry conditions in well sealed containers.

- Requirements to be met by storerooms and containers:

Observe laws and regulations on the storage and use of substances hazardous to water.

Use only containers specifically permitted for this substance/product.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

- **Minimum storage temperature** 0°C- **Storage class** 12 (VCI - Konzept, 2007)- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

Void

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)MAK (Germany) Long-term value: 0,2E mg/m³

Sh

vgl. Abschn. Xc

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.- **Individual protection measures, such as personal protective equipment**

- General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- Breathing equipment:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Respiratory protection in case of release of vapours/aerosols

- Hand protection

In the event of prolonged skin contact, protective gloves or skin protection cream are recommended.

Protective gloves (EN 374).

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

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

- Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

Note information regarding permeation rate, penetration times and the degradation supplied by the manufacturer of gloves just as workplace-specific conditions.

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 safety glasses.

Wear safety goggles with side protection when handling the product openly and if there is a risk of splashing.

- Body protection:

Protective work clothing.

Standard protective work clothing. Chemical resistant safety shoes or boots. If skin contact may occur, wear impermeable protective clothing for this solution.

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Physical state

Liquid

- Colour:

White

- Smell:

Light

- Odour threshold:

Not determined.

- Melting point/freezing point:

-1 °C

- Boiling point or initial boiling point and boiling range

>250 °C (69011-36-5 Isotridecanol, ethoxylated)

- Flammability

Not applicable.

- Lower and upper explosion limit

- Lower:

Not determined.

- Upper:

Not determined.

- Flash point:

Product is non-flammable nor potentially explosive

- Decomposition temperature:

Not determined.

- pH at 20 °C

7

- pH-value:

- Viscosity:

- Kinematic viscosity

Not determined.

- dynamic:

Not determined.

- Solubility

- Water:

Fully miscible

- Partition coefficient n-octanol/water (log value)

Not determined.

- Vapour pressure:

Not determined.

- Density and/or relative density

- Density at 20 °C

1 g/cm³

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- 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 safety.	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not potentially explosive
- Evaporation rate	Not determined.
- Information with regard to physical hazard 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 solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
If this product is heated to more than 150°C, traces of formaldehyde may be released. Adequate ventilation is required.

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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- LD/LC50 values that are relevant for classification:

Oral	LD50	>5.000 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rat)

69011-36-5 Isotridecanol, ethoxylated

Oral	LD50	>2.000 mg/kg /own te (rat) 1.000-2.000 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	232-249 mg/kg (rat)
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mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)

Oral	LD50	64-66 mg/kg (rat) (Thor)
Dermal	LD50	87-141 mg/kg (rat) (Thor)
Inhalative	LC 50 / 4 h	0,17-2,36 mg/l (rat)

- Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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.
- **Additional toxicological information:** irritant
- **11.2 Information on other hazards**

- Endocrine disrupting properties

None of the ingredients is listed.

* SECTION 12: Ecological information

- 12.1 Toxicity**- Aquatic toxicity:**

Daphnia toxicity: EC50 > 100 mg/l

LC 50 / 96 h	180-350 mg/l (Brachydanio rerio)
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69011-36-5 Isotridecanol, ethoxylated

LC 50 / 96 h	1-10 mg/l (Leuciscus idus) >1-10 mg/l (Cyprinus carpio)
EC 50 / 48 h	>1-10 mg/l (Daphnia magna) 1-10 mg/l (Aquatic invertebrates)
EC 50 / 72 h	1-10 mg/l (Algae) >1-10 mg/l (Desmodesmus subspicatus)

2682-20-4 2-methyl-2H-isothiazol-3-one

LC 50 / 96 h	4,77 mg/l (Oncorhynchus mykiss)
EC 50 / 48 h	0,93 mg/l (Daphnia magna)
EC 50 / 3 h	34,6 mg/l (activated sludge (method OECD 209)) (DIN 38412-3 (TTC-Test))

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mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)	
LC 50 / 96 h	0,19 mg/l (fish) 14,8 mg/l (<i>Oncorhynchus mykiss</i>) (OECD 203) 0,32 mg/l (<i>Lepomis macrochirus</i>) >100 mg/l (<i>Danio rerio</i>) (Richtlinie 67/548/EWG, Anhang V, C.1.)
EC 50 / 48 h	0,1 mg/l (<i>Daphnia magna</i>) (OECD 202) 0,0052 mg/l (<i>Skeletonema costatum</i>) (OECD 201)
EC 50 / 48 h	6,7 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC 50 / 96 h	0,22 mg/l (<i>Oncorhynchus mykiss</i>) (OECD 203)
EC 50 / 72 h	0,018-0,027 mg/l (<i>Selenastrum capricornutum</i>) 0,048 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
EC 50	0,003 mg/l (<i>Skeletonema costatum</i>)
EC 50 / 3 h	7,92 mg/l (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test))
NOEC	0,098 mg/l (<i>Oncorhynchus mykiss</i>) (28 d, OECD 210) 0,004 mg/l (<i>Daphnia</i>) (21 d, OECD 211)
NOEC / 72 h	0,0012 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
NOEC / 48 h	0,00064 mg/l (<i>Skeletonema costatum</i>) (OECD 201)

- 12.2 Persistence and degradability**69011-36-5 Isotridecanol, ethoxylated**BiAS - Elimination ≥ 90 % (OECD 301 E) (OECD 301 E)

CO2 - Entwicklung >60 % (OECD 301 B) (28 d, OECD 301 B, ISO 9439)

2682-20-4 2-methyl-2H-isothiazol-3-one

Biodegradability 50 % /29d (bacteria) (OECD 301 B (CO2 Evolution - Modified Sturm Test))

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)

Biodegradability >80 % (OECD 303 A) (OECD 303 A (Activated sludge))

>60 % (OECD 301 D) (28 d, OECD 301 D)

30 % (OECD 301 B)

Biodegradability 100 % (OECD 302 B)

Eliminationsgrad 82 % (7d), OECD 302B.

- Other information:

BOD5 value: 140 mg O2/g substance

COD value: 580 mg O2/g substance

- 12.3 Bioaccumulative potential No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.**- 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**- Remark:**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxic for fish

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- Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):	
69011-36-5 Isotridecanol, ethoxylated	
EC 10 / 17 h	>10.000 mg/l (bacteria) (DIN 38412 Teil 8)
2682-20-4 2-methyl-2H-isothiazol-3-one	
EC 20	2,8 mg/l (activated sludge (method OECD 209)) (3 h, DIN 38412-3 (TTC-Test))
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)	
EC 20	0,97 mg/l (activated sludge (DEV - L2)) (3 h, OECD 209)
EC 50	4,5 mg/l (-) (Atemhemmung (Belebtschlamm))
	7,9 mg/l (activated sludge (method OECD 209))

- Additional ecological information:**- General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 1 (Self-assessment): slightly hazardous for water.

* SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

- Recommendation

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

- Waste disposal key number:

Since 1 January 1999, the waste code numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be taken from the European Waste Catalogue.

- Uncleaned packagings: Disposal in accordance with official regulations.**- Recommendation:**

Empty containers completely and send them cleaned for reconditioning or recycling. Dispose of containers only in consultation with local authorities.

Levelement: After optimal emptying, immediately return to the supplier tightly closed and without cleaning. Make sure that no foreign matter gets into the packaging!

Other containers: Empty completely and clean for reconditioning or reprocessing.

- Recommended cleaning agent:

Water, if necessary with cleaning agent.

e.g. active foam cleaner, neutral

SECTION 14: Transport information

- 14.1 UN number or ID number	
- ADR/RID, IMDG, IATA	Void
- 14.2 UN proper shipping name	
- ADR/RID, IMDG, IATA	Void
- 14.3 Transport hazard class(es)	
- ADR/RID, IMDG, IATA	
- Class	Void

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- 14.4 Packing group	
- ADR/RID, IMDG, IATA	Void
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information:	Not dangerous according to the above specifications.
- UN "Model Regulation":	Void

* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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:**
2-methyl-2H-isothiazol-3-one
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)
- **Hazard statements**
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- National regulations

- Information about limitation of use:

Employment restrictions concerning young persons must be observed.

- VOC:

Volatile organic solvents, which can contribute to the VOC value, are not contained in the formulation.

- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

- VOC (EU) 0,0 g/l

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

- Application: Please refer to the technical data sheet for application instructions.

- Registration-Number

- Relevant phrases

Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

- Training hints

Employees must be regularly trained in the safe handling of the products based on the information in the safety data sheet and the local conditions of the workplace. National regulations on the training of employees in the handling of hazardous substances must be observed.

- Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- Department issuing data specification sheet: See section 1.3: Responding area

- Date of previous version: 26.01.2023

- Version number of previous version: 113.12

- Abbreviations and acronyms:

RPE: Respiratory Protective Equipment

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Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 14.10.2025

Version number 113.13 (replaces version 113.12)

Revision: 09.10.2025

Trade name Entschäumer 51

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RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

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 Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

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)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

ISO: International Organisation for Standardisation

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- * Data compared to the previous version altered.

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