

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 9985Eco
Print date: 23.05.2025
Version: 76

Ecoline MultiTop
Revision date: 20.05.2025
Issue date: 20.05.2025

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

1.1. Product identifier

Article No. (manufacturer/supplier) 9985Eco
Trade name/designation Ecoline MultiTop
Matt
colourless

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

Relevant identified uses

Coating / Varnish

1.3. Details of the supplier of the safety data sheet

manufacturer

Saicos Colour GmbH
Carl-Zeiss-Str.3 Telephone: +49 (0) 2583 3037-0
D-48336 Sassenberg Telefax: +49 (0) 2583 3037-10

Department responsible for information:

E-mail (competent person) info@saicos.de

1.4. Emergency telephone number

Giftnotruf Berlin: +49 30 30686 700 Beratung in Deutsch und Englisch

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

Hazard pictograms

Hazard statements

not applicable

Precautionary statements

not applicable

Hazard components for labelling

not applicable

Supplemental hazard information

EUH208 Contains reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1); 2,4,7,9-Tetramethyldec-5-yne-4,7-diol . May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Water-thinnable preparations

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

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification: // Remark	
225-878-4	01-2119475527-28	
5131-66-8	3-butoxypropan-2-ol	1 - 2,5
603-052-00-8	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Flam. Liq. 3 H226	
252-104-2	01-2119450011-60	
34590-94-8	(2-methoxymethylethoxy)propanol Substance with a common (EC) occupational exposure limit value.	1 - 2,5

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204-809-1 126-86-3	01-2119954390-39-XXXX 2,4,7,9-Tetramethyldec-5-yne-4,7-diol Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	< 0,5
55965-84-9 613-167-00-5	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) Acute Tox. 2 H330 / Acute Tox. 2 H310 / Acute Tox. 3 H301 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071 Specific concentration limit (SCL): Skin Corr. 1C H314 >= 0,6 / Skin Irrit. 2 H315 >= 0,06 / Eye Dam. 1 H318 >= 0,6 / Eye Irrit. 2 H319 >= 0,06 / Skin Sens. 1A H317 >= 0,0015 Acute toxicity estimate (ATE): ATE (oral): 457 mg/kg bw / ATE (dermal): 660 mg/kg bw	< 0,5

Additional information

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

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Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

(2-methoxymethylethoxy)propanol
EC No. 252-104-2 / CAS No. 34590-94-8

WEL, TWA: 308 mg/m³; 50 ppm

Remark: (may be absorbed through the skin)

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

DNEL long-term dermal (systemic), Workers: 65 mg/kg

DNEL acute inhalative (systemic), Workers: 310 mg/m³

DNEL long-term inhalative (systemic), Workers: 310 mg/m³

DNEL long-term oral (repeated), Consumer: 1,67 mg/kg

DNEL long-term dermal (systemic), Consumer: 15 mg/kg

DNEL acute inhalative (systemic), Consumer: 37,2 mg/m³

DNEL long-term inhalative (systemic), Consumer: 37,2 mg/m³

3-butoxypropan-2-ol

Index No. 603-052-00-8 / EC No. 225-878-4 / CAS No. 5131-66-8

DNEL long-term dermal (systemic), Workers: 44 mg/kg

DNEL long-term inhalative (systemic), Workers: 270,5 mg/m³

DNEL long-term oral (repeated), Consumer: 8,75 mg/kg

DNEL long-term dermal (systemic), Consumer: 16 mg/kg

DNEL long-term inhalative (systemic), Consumer: 33,8 mg/m³

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

Index No. 613-167-00-5 / CAS No. 55965-84-9

DNEL acute inhalative (local), Workers: 0,04 mg/m³
DNEL long-term inhalative (local), Workers: 0,02 mg/m³
DNEL short-term oral (acute), Consumer: 0,11 mg/kg
DNEL long-term oral (repeated), Consumer: 0,09 mg/kg bw/day
DNEL acute inhalative (local), Consumer: 0,04 mg/m³
DNEL long-term inhalative (local), Consumer: 0,02 mg/m³

PNEC:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

PNEC aquatic, freshwater: 19 mg/L
PNEC aquatic, marine water: 1,9 mg/L
PNEC aquatic, intermittent release: 190 mg/L
PNEC sediment, freshwater: 70,2 mg/kg
PNEC sediment, marine water: 7,02 mg/kg
PNEC, soil: 2,74 mg/kg
PNEC sewage treatment plant (STP): 4168 mg/L

3-butoxypropan-2-ol

Index No. 603-052-00-8 / EC No. 225-878-4 / CAS No. 5131-66-8

PNEC aquatic, freshwater: 0,525 mg/L
PNEC aquatic, marine water: 0,0525 mg/L
PNEC aquatic, intermittent release: 5,25 mg/L
PNEC sediment, freshwater: 2,36 mg/kg
PNEC sediment, marine water: 0,236 mg/kg
PNEC, soil: 0,16 mg/kg
PNEC sewage treatment plant (STP): 10 mg/L

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

Index No. 613-167-00-5 / CAS No. 55965-84-9

PNEC aquatic, freshwater: 3,39 µg/L
PNEC aquatic, marine water: 3,39 µg/L
PNEC aquatic, intermittent release: 3,39 µg/L
PNEC sediment, freshwater: 0,027 mg/kg
PNEC sediment, marine water: 0,027 mg/kg
PNEC, soil: 0,01 mg/kg
PNEC sewage treatment plant (STP): 0,23 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

Not applicable.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material 0,4 mm Breakthrough time: 30 min

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear suitable protective clothing and gloves.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	100 °C Source: water
Flammability	not applicable
Lower and upper explosion limit:	
Lower explosion limit:	1,35 Vol-%
Upper explosion limit:	10,4 Vol-% Source: (2-methoxymethylethoxy)propanol
Flash point:	not applicable
Auto-ignition temperature:	207 °C Source: (2-methoxymethylethoxy)propanol
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Kinematic viscosity (40°C):	< 135 mm²/s
Viscosity at 20 °C:	28 s 4 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	14,0262 mbar Method: calculated.
Density and/or relative density:	
Density at 20 °C:	1,03 g/cm³
Relative vapour density:	not applicable
particle characteristics:	not applicable

9.2. Other information

Solid content:	34 weight-%
solvent content:	
Organic solvents:	5 weight-%
Water:	61 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

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10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

(2-methoxymethylethoxy)propanol
oral, LD50, Rat: > 5000 mg/kg
Method: OECD 401
dermal, LD50, Rat: > 19200 mg/kg
Method: OECD 402
dermal, LD50, Rabbit: 9510 mg/kg
inhalative (vapours), LC50, Rat 55 - 60 mg/L (4 h)
inhalative (dust and mist), LC50, Rat: > 50 mg/L (4 h)

3-butoxypropan-2-ol

oral, LD50, Rat: 3300 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

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

oral, LD50, Rat: 457 mg/kg
dermal, LD50, Rat: 660 mg/kg

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

(2-methoxymethylethoxy)propanol
Skin, Rabbit. (4 h)
Method: OECD 404
non-irritant.
eyes, Rabbit.: Evaluation non-irritant.

Respiratory or skin sensitisation

(2-methoxymethylethoxy)propanol
Skin: ; Evaluation not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; 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.

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

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Do not allow to enter into surface water or drains.

12.1. Toxicity

(2-methoxymethylethoxy)propanol

Fish toxicity, LC50, Poecilia reticulata (Guppy): > 1000 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1919 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 969 mg/L (96 h)

Method: OECD 201

3-butoxypropan-2-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): > 100 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 1000 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (96 h)

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

Fish toxicity, LC50: 0,36 mg/L (96 h)

Daphnia toxicity, EC50: 1,07 mg/L (48 h)

Algae toxicity, ErC50: 0,13 mg/L (72 h)

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Fish toxicity, LC50, Cyprinus carpio (Common Carp): 42 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 91 mg/L (48 h)

Algae toxicity, ErC50, Selenastrum capricornutum: 82 mg/L (72 h)

Long-term Ecotoxicity

(2-methoxymethylethoxy)propanol

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 0,5 mg/L (22 day(s))

12.2. Persistence and degradability

(2-methoxymethylethoxy)propanol

: 75 Degradation rate (28 day(s)); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301F

3-butoxypropan-2-ol

: 90 (28 day(s)); Evaluation Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

(2-methoxymethylethoxy)propanol

Partition coefficient: n-octanol/water: 0,004

Method: OECD 107

3-butoxypropan-2-ol

Partition coefficient: n-octanol/water: 1,2

Method: OECD 117

Bioconcentration factor (BCF)

(2-methoxymethylethoxy)propanol

Bioconcentration factor (BCF): 99

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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List of proposed waste codes/waste designations in accordance with EWC
080112 waste paint and varnish other than those mentioned in 08 01 11

Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

No dangerous good in sense of this transport regulation.

14.1. **UN number or ID number**
not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**
not applicable

14.4. **Packing group**
not applicable

14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code -

Sea transport (IMDG)

EmS-No. not applicable

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 46

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC product category: (Cat. A/i) ; VOC limit value: 140 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 46

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No.	Designation	REACH No.
CAS No.		
225-878-4	3-butoxypropan-2-ol	01-2119475527-28
5131-66-8		

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252-104-2 34590-94-8	(2-methoxymethylethoxy)propanol	01-2119450011-60
204-809-1 126-86-3	2,4,7,9-Tetramethyldec-5-yne-4,7-diol	01-2119954390-39-XXXX

SECTION 16: Other information

Full text of classification in section 3

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Acute Tox. 2 / H310	Acute toxicity (dermal)	Fatal in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MAK	Maximum workplace concentration
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

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