

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **3002 Proseal**

Creation date: **8.10.2010** · Revision: **19.7.2018** · Version: **1**

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING



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1.1. Product identifier

Product name

3002 Proseal

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

Relevant identified uses

Sealant.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.

Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia

Phone: +386 3 703 3180

Fax: +386 3 703 3188

E-mail: n.cvilak@silco-automotive.com

Point of contact for safety info: Nejc Cvilak

1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aerosol 3; H229 Pressurised container: May burst if heated.

2.2 Label elements

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

Signal word: **Warning**

H229 Pressurised container: May burst if heated.

EUH208 Contains butan-2-one O,O',O''-(vinylsilyldiyl)trioxime ; N-(3-(trimethoxysilyl)propyl)ethylenediamine ; butan-2-one O,O',O''-(methylsilyldiyl)trioxime; 2-butanone oxime. May produce an allergic reaction.

P251 Do not pierce or burn, even after use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area.

2.2.2. Contains:

-

2.2.3. Special provisions

Special hazards are not known or expected.

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2.3. Other hazards

After contact with water, humidity and while curing butanon-2-oxim (CAS: 96-29-7) will be generated.
Limited evidence of a carcinogenic effect.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description

Hydrocarbons with a propellant. Under the influence of humidity this product may release 2-Butanone oxime. Information about Distillates (petroleum), hydrotreated middle: contains Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
distillates (petroleum), hydrotreated middle ^[N]	64742-46-7 265-148-2 649-221-00-X	<5	Asp. Tox. 1; H304		-
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9 245-366-4 -	<1	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319		-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3 217-164-6 -	<1	Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 4; H332 Aquatic Chronic 3; H412		-
butan-2-one O,O',O''-(vinylsilylidyne)trioxime	2224-33-1 218-747-8 -	<1	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319		-
2-butanone oxime	96-29-7 202-496-6 616-014-00-0	<1	Acute Tox. 4; H312 Skin Sens. 1; H317 Eye Dam. 1; H318 Carc. 2; H351		-

Notes for substances:

N The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

When in doubt or if feeling unwell seek medical assistance.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Victim should rest in a warm place. Loosen tight clothing such as a collar, tie, belt. Maintain an open airway. If symptoms develop and persist, seek medical attention.

Following skin contact

Immediately remove contaminated clothing. Clean contaminated skin mechanically. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

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Following ingestion

Rinse mouth thoroughly with water. Drink water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

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

Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Skin contact

Contact with skin may cause irritation (redness, itching).

May cause sensitisation by skin contact (itching, redness, rashes).

Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Ingestion

May cause abdominal discomfort.

May cause nausea/vomiting and diarrhea.

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

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50°C. Cool the endangered containers with water spray.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

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Emergency procedures

Ensure adequate ventilation. Do not breathe vapour or mist. Avoid contact with skin and eyes.

6.1.2. For emergency responders

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Prevent environmental contamination. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

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6.3.2. For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor. Clean contaminated area with water and detergent.

6.3.3. Other information

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6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Protect from open fire and other sources of ignition or heat.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

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7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Use personal protective equipment. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in the original, tightly sealed container in a cool and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used. Do not expose to sun and temperatures exceeding 50°C. Store between: 0°C to +30°C Keep in a dry place. Keep away from moisture and water. Keep away from acids. Under the influence of humidity this product releases butanone-oxime. Do not pierce or burn, even after use.

7.2.2. Packaging materials

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7.2.3. Requirements for storage rooms and vessels

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7.2.4. Storage class

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7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

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Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

No information.

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

8.1.3. DNEL/DMEL values

No information.

8.1.4. PNEC values

No information.

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Take off all contaminated clothing.

Organisational measures to prevent exposure

Do not eat, drink or smoke while working. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

Keep away from food, drink and animal feeding stuffs. Good ventilation.

8.2.2. Personal protective equipment

Eye and face protection

Safety goggles (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

Material	Thickness	Penetration Time	Remark
nitrile rubber	> 0,1 mm		

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

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8.2.3. Environmental exposure controls

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Physical state:	liquid; aerosol
- Colour:	different
- Odour:	characteristic

Important health, safety and environmental information

- pH	No information.
- Melting point/freezing point	No information.
- Initial boiling point/boiling range	No information.
- Flash point	No information.
- Evaporation rate	No information.
- Flammability (solid, gas)	No information.
- Explosion limits (vol%)	No information.
- Vapour pressure	No information.
- Vapour density	No information.
- Density	Density: 1,3 g/cm ³ at 20 °C
- Solubility	Water: at 23 °C insoluble
- Partition coefficient	No information.
- Auto-ignition temperature	No information.
- Decomposition temperature	No information.
- Viscosity	No information.
- Explosive properties	No information.
- Oxidising properties	No information.

9.2. Other information

- Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Exothermic reaction with acids. With exposure to acids, product will release carbon dioxide.

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

Heating may cause the container to burst.

10.4. Conditions to avoid

Protect from moisture and water - keep in dry place. Do not expose to sunlight or temperatures above 50 ° C.

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10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. While curing will be generated butanon-2-oxim.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
2-butanone oxime (96-29-7)	oral	LD ₅₀	rat		2326 mg/kg	OECD 401	
2-butanone oxime (96-29-7)	inhalation	LD ₅₀	rat	4 h	> 4,83 mg/l	OECD 403	
2-butanone oxime (96-29-7)	dermal	LD ₅₀	rabbit		> 1000 mg/kg	OECD 402	

(b) Skin corrosion/irritation

Additional information: May cause skin irritation.

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	rabbit		It causes serious eye damage.	OECD 405	
2-butanone oxime (96-29-7)	rabbit		It causes serious eye damage.	OECD 405	

Additional information: Eye contact may cause irritation.

(d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	dermal	guinea pig		Sensitizing.	OECD 429	
2-butanone oxime (96-29-7)	dermal	guinea pig		Sensitizing.	OECD 406	

Additional information: It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

Additional information: STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

Additional information: STOT RE (repeated exposure): Not classified.

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Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
distillates (petroleum), hydrotreated middle (64742-46-7)	LD50	> 10000 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD 203	
butan-2-one O,O',O''-(methylsilyldiyl)trioxime (22984-54-9)	LD50	> 560 mg/L	96 h	fish	<i>Danio rerio</i>	OECD 203	
	LD50	> 760 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	LD50	168 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD 203	
	EC ₅₀	87,4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC ₅₀	8,8 mg/L	96 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	NOEC	3,1 mg/L	96 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
butan-2-one O,O',O''-(vinylsilyldiyl)trioxime (2224-33-1)	LD50	560 mg/L	96 h	fish	<i>Danio rerio</i>	OECD 203	
2-butanone oxime (96-29-7)	LD50	320 – 1000 mg/L	96 h	fish	<i>Leuciscus idus</i>		
	EC ₅₀	> 500 mg/L	48 h	crustacea	<i>Daphnia magna</i>	EU Method C.2	
	EC ₅₀	83 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	

12.1.2. Chronic (long-term) toxicity

No information.

12.2. Persistence and degradability12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation**For components**

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
distillates (petroleum), hydrotreated middle (64742-46-7)	aerobic	30 %			OECD 301 D	
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	aerobic	50 %			OECD Test Guideline 301 A	

12.3. Bioaccumulative potential12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

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12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
butan-2-one O,O',O''-(methylsilyldiyl)trioxime (22984-54-9)	Soil	log KOC	9,83			
2-butanone oxime (96-29-7)	Soil	log KOC	0,65			

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Waste is classified as hazardous waste. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Dispose according to regulations.

Waste codes / waste designations according to LoW

16 05 04* - gases in pressure containers (including halons) containing dangerous substances

Packaging

Pressurized container. Do not pierce or burn, even after use. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Cleaned uncontaminated packaging may be taken for recycling. Deliver completely emptied containers to approved waste disposal authorities.

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

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13.1.4. Other disposal recommendations

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SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

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14.3. Transport hazard class(es)

2

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(E)

IMDG EmS

F-D, S-U



14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

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Abbreviations and acronyms

ATE - Acute Toxicity Estimate

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

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DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC₅₀ - Lethal Concentration to 50 % of a test population
LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H351 Suspected of causing cancer .
- H412 Harmful to aquatic life with long lasting effects.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.