

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878

F162-B21 hebro®lub 756 EP

Version: 3.5

Revision Date: 21.01.2025

Print Date: 22.01.2025

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

1.1 Product identifier

Trade name : F162-B21 hebro®lub 756 EP

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

Use of the Sub-
stance/Mixture : High speed cooling lubricant for metalworking

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie- ZN der Rockwood Specialties Group
GmbH
Rostocker Str. 40
41199 Mönchengladbach

Contact person : Zentrale hebro chemie
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit
Telephone : +49(0)2166 6009-311
E-mail address : msds.de@hebro-chemie.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:
+49 (0) 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Polysulfides, di-tert-dodecyl
Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione
3-iodo-2-propynyl butylcarbamate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Amine-free preparation based on mineral oil and additives

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
mineral oil mixed (<3% DMSO),	Not Assigned	Asp. Tox. 1; H304	>= 10 - < 25

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classification based on CAS: 64742-56-9			
Polysulfides, di-tert-dodecyl	68425-15-0 270-335-7 01-2119540516-41	Skin Sens. 1B; H317	>= 10 - < 25
2-Phenoxyethanol	122-99-6 204-589-7 603-098-00-9 01-2119488943-21	Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 2.5 - < 10
Sulfonic acids, petroleum, sodium salts	68608-26-4 271-781-5 01-2119527859-22	Eye Irrit. 2; H319	>= 2.5 - < 10
Fatty acids, tall-oil, reaction products with acrylic acid	Not Assigned 939-424-4 01-2119972299-21	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 3 - < 10
Oleic acid	112-80-1 204-007-1	Aquatic Chronic 3; H412	>= 2.5 - < 10
Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy-	9004-98-2 500-016-2	Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 2.5 - < 10
Potassium Hydroxide	1310-58-3 215-181-3 01-2119487136-33	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Eye Irrit. 2; H319 0.5 - < 2 % Skin Irrit. 2; H315 0.5 - < 2 %	>= 2 - < 2.5
Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	5395-50-6 226-408-0	Skin Sens. 1B; H317	>= 0.1 - < 1
3-iodo-2-propynyl butylcarbamate	55406-53-6 259-627-5	Acute Tox. 4; H302 Acute Tox. 3; H331 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT RE 1; H372 (larynx) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 0.1 - < 0.25

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Call a physician if symptoms occur.
First aider needs to protect himself.
- If inhaled : Provide fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off immediately all contaminated clothing.
Wash off immediately with soap and plenty of water.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Do NOT induce vomiting.
Call a physician immediately.
Keep at rest.
Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
Water spray jet

- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Combustion may cause:
Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
sulphur dioxide (toxic).

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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Specific extinguishing methods : Use water spray to cool unopened containers.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Avoid contact with skin, eyes and clothing.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes.
Ensure adequate ventilation.
For personal protection see section 8.
Have eye wash bottle or eye rinse ready at the work place.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Follow the water regulations. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container in a cool, well-ventilated place.
- Further information on storage conditions : Keep away from heat. Protect from frost.
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Advice on common storage : Incompatible with oxidizing agents.

Recommended storage temperature : 5 - 40 °C

7.3 Specific end use(s)

Specific use(s) : High speed cooling lubricant for metalworking

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Potassium Hydroxide	1310-58-3	STEL	2 mg/m ³	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Polysulfides, di-tert-dodecyl	Workers	Inhalation	Long-term systemic effects	23.5 mg/m ³
	Workers	Skin contact	Long-term systemic effects	33.3 mg/kg bw/day
2-Phenoxyethanol	Workers	Inhalation	Long-term systemic effects	8.07 mg/m ³
	Workers	Inhalation	Long-term local effects	8.07 mg/m ³
Fatty acids, tall-oil, reaction products with acrylic acid	Workers	Skin contact	Long-term systemic effects	34.72 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	3.19 mg/m ³
Potassium Hydroxide	Workers	Skin contact	Long-term systemic effects	0.9 mg/kg
	Workers	Inhalation	Long-term local effects	1 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Polysulfides, di-tert-dodecyl	Behaviour in waste water treatment plants	1000 mg/l
	Oral	66.7 mg/kg
2-Phenoxyethanol	Fresh water	0.943 mg/l
	Marine water	0.0943 mg/l
	Sewage treatment plant	24.8 mg/l
	Fresh water sediment	7.2366 mg/kg
Potassium Hydroxide	Marine sediment	0.7237 mg/kg
	Soil	1.26 mg/kg

8.2 Exposure controls

Personal protective equipment

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Eye/face protection	:	Safety glasses with side-shields conforming to EN166
Hand protection	:	
Material	:	Protective gloves complying with EN 374.
Break through time	:	> 60 min
Protective index	:	Class 3
Material	:	Nitrile rubber
Glove thickness	:	0.4 mm
Material	:	butyl-rubber
Glove thickness	:	0.5 mm
Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
Skin and body protection	:	Chemical resistant protective clothing according to DIN EN 13034 (Type 6) Work uniform or laboratory coat.
Respiratory protection	:	If product forms vapours or aerosols wear breathing protection.
Filter type	:	Combined ammonia/amines and organic vapour type (AK)
Protective measures	:	When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the skin protection plan.

Environmental exposure controls

Water : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	brown
Odour	:	characteristic
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	
Upper explosion limit / Upper	:	not determined

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flammability limit

Lower explosion limit / Lower
flammability limit : not determined

Flash point : > 100 °C

Auto-ignition temperature : not determined

pH : 9.0 (20 °C)
Concentration: 50 g/l
9.1 (20 °C)
(undiluted)

Viscosity
Viscosity, kinematic : ca. 78 mm²/s (40 °C)

Solubility(ies)
Water solubility : completely miscible, emulsifiable

Partition coefficient: n-
octanol/water : Not applicable

Vapour pressure : not determined

Density : ca. 0.98 g/cm³ (20 °C)
Method: DIN 51757

Relative vapour density : not determined

9.2 Other information

Explosives : No data available

Substances and mixtures,
which in contact with water,
emit flammable gases : No data available

Metal corrosion rate : Not corrosive to metals

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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Carbon dioxide (CO₂)

Carbon monoxide

Smoke

Nitrogen oxides (NO_x)

sulphur dioxide (toxic).

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

2-Phenoxyethanol:

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Fatty acids, tall-oil, reaction products with acrylic acid:

Acute oral toxicity : LD50 (Rat): 6,176 mg/kg

Oleic acid:

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Acute oral toxicity : LD50 (Rat): 74,000 mg/kg

Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy-:

Acute oral toxicity : LD50 (Mouse): > 2,000 mg/kg

LD50 (Rat): 2,770 mg/kg

Potassium Hydroxide:

Acute oral toxicity : LD50 (Rat): 333 mg/kg

Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

3-iodo-2-propynyl butylcarbamate:

Acute oral toxicity : LD50 (Rat, male): 1,795 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Alveolar dust fraction

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Result : Irritating to skin.

Components:

2-Phenoxyethanol:

Species : Rabbit
Method : OECD Test Guideline 404
Remarks : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Assessment : Causes serious eye irritation.
Method : in vitro eye irritation test
Result : Irritating to eyes.
Test substance : Similar substance

Components:

2-Phenoxyethanol:

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Species : Rabbit
Method : OECD Test Guideline 405
Remarks : Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

2-Phenoxyethanol:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Remarks : No sensitising effects are known.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Polysulfides, di-tert-dodecyl:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Result: negative

Carcinogenicity

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

Product:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

Components:

2-Phenoxyethanol:

Exposure routes : inhalation (vapour)
Target Organs : respiratory tract irritation
Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified due to lack of data.

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Aspiration toxicity

Not classified due to lack of data.

Components:

mineral oil mixed (<3% DMSO), classification based on CAS: 64742-56-9:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Polysulfides, di-tert-dodecyl:

Toxicity to fish : LC50 (Brachydanio rerio (Zebra danio)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia (water flea)): < 0.1 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): < 0.08 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to microorganisms : (Pseudomonas putida): 10,000 mg/l
Exposure time: 16 h
Test Type: Growth inhibition

2-Phenoxyethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 344 mg/l
Exposure time: 96 h
Test Type: flow-through test

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NOEC (Pimephales promelas (fathead minnow)): 23 mg/l
Exposure time: 34 d
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus subspicatus): > 500 mg/l
Exposure time: 72 h
Method: DIN 38412

Toxicity to microorganisms : EC20 (activated sludge): 620 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209

EC10 (Pseudomonas putida): 320 mg/l
Exposure time: 17 h
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9.43 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

Oleic acid:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 80 mg/l
Exposure time: 48 h
Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): > 56 mg/l
Exposure time: 96 h
Test Type: static test

Potassium Hydroxide:

Toxicity to fish : LC50 (Fish): 28.6 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 203

LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 100 mg/l
Method: OECD Test Guideline 202

Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione:

Toxicity to fish : LC50 (Brachydanio rerio (Zebra danio)): 158 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 17.8 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.02 mg/l

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Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 0.5 h

EC50 (Pseudomonas putida): 321 mg/l
Exposure time: 16 h

3-iodo-2-propynyl butylcarbamate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.067 mg/l
Exposure time: 96 h

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.049 mg/l
Exposure time: 96 h

NOEC (Pimephales promelas (Fathead minnow)): 0.0084 mg/l
Exposure time: 35 d

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
aquatic invertebrates Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 0.05 mg/l
Exposure time: 21 d

Toxicity to algae/aquatic : EC50 (Scenedesmus subspicatus): 0.022 mg/l
plants Exposure time: 72 h

NOEC (Scenedesmus subspicatus): 0.0046 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic tox- : 10
icity)

Toxicity to microorganisms : EC50 (Natural microorganism): 44 mg/l
Exposure time: 3 h

M-Factor (Chronic aquatic : 1
toxicity)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

2-Phenoxyethanol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Biodegradation: 90 - 100 %
Exposure time: 15 d
Method: OECD Test Guideline 301A
Remarks: Readily biodegradable.

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12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Polysulfides, di-tert-dodecyl:

Partition coefficient: n- : log Pow: > 6.2 (22 °C)
octanol/water Method: OECD Test Guideline 117

2-Phenoxyethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione:

Partition coefficient: n- : log Pow: -2.5
octanol/water

3-iodo-2-propynyl butylcarbamate:

Partition coefficient: n- : log Pow: 2.81
octanol/water

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Components:

Polysulfides, di-tert-dodecyl:

Distribution among environ- : Medium: Soil
mental compartments Remarks: immobile

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

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12.7 Other adverse effects

Product:

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Do not let product enter drains.
Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA_P : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA_P : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA_P : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA_P (Passenger) : Not regulated as a dangerous good

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14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H290	:	May be corrosive to metals.
H302	:	Harmful if swallowed.

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H304	:	May be fatal if swallowed and enters airways.
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.
H331	:	Toxic if inhaled.
H335	:	May cause respiratory irritation.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Met. Corr.	:	Corrosive to metals
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European

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Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

The product is classified and labelled in accordance with EC directives or respective national laws.

Regional or national implementations of GHS may not implement all hazard classes and categories.

Guideline on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : no component is listed

No PFAS are consciously added to the product concerning the restriction proposal for inclusion to REACH (Annex XVII).

Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method

GB / EN