

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1. Product identifier

Trade name/designation:

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Article No.:

02.1016.a

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

Use of the substance/mixture:

Instrument cleaners

Concentrated Enzyme Based Cleaner and Disinfectant for Medical Devices and Endoscopes

Relevant identified uses:

Sector of uses [SU]

SU 20: Health services

Product Categories [PC]

PC 35: Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ACTO GmbH

Quality Management

Büchnerstr. 11

38118 Braunschweig

Germany

Telephone: (+49) (0) 531-239 508-0

Telefax: (+49) (0) 531-239 508-11

E-mail: info@actogmbh.com

Website: http://www.actogmbh.com

E-mail (competent person): info@actogmbh.com

Poison Control Center-Nord (GIZ-Nord) University Medical Center Göttingen Robert-Koch-Str. 40, 37075

Göttingen Emergency number for Citizens: +49 (0) 551-19 24 0 Consulting physician: +49 (0) 551-38 31

80 E-mail: giznord@giz-nord.de Web-Page: http://www.giz-nord.de

1.4. Emergency telephone number

Name: Erdi Günher Profession: Chemist Certificate No.: GBF-A-0-3313 Validity: 14.07.2024 Telephone: +90 535 865 4635 E-mail (competent person): erdi.gunher@actopharma.com, 24h: GIZ-Nord: +49-551-19 24 0, Safety Officer: +49-531-2395080; +49-172-8560648 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	

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2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

hazard statements for health hazards

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.

Supplemental hazard information

EUH208	Contains Subtilisin, Lipase, triacylglycerol. May produce an allergic reaction.
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Precautionary statements

P102	Keep out of reach of children.
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Precautionary statements Prevention

P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves and eye/face protection.

Precautionary statements Response

P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.

2.3. Other hazards

Adverse human health effects and symptoms:

Avoid contact with eyes and skin. Causes severe skin burns and eye damage.

Adverse environmental effects:

Avoid release of large amounts to the environment.

Other adverse effects:

No further relevant information available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Washing and cleaning products

Additional information:

Within the current knowledge of the supplier, this mixture does not contain any further substances classified as health or environmental hazards in the concentrations applicable within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008 and are hence require reporting in this section.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 107-21-1 EC No.: 203-473-3	ethane-1,2-diol Acute Tox. 4 Warning H302	9 - 15 weight-%
CAS No.: 64-02-8 EC No.: 200-573-9	tetrasodium ethylenediaminetetraacetate Acute Tox. 4, Eye Dam. 1 Danger H302-H318	3 - 5 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25-0000	propan-2-ol Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H336	3 - 5 weight-%
CAS No.: 8001-54-5 EC No.: 264-151-6	Benzalkonium chloride Acute Tox. 3, Acute Tox. 4, Aquatic Acute 1, Skin Corr. 1B Danger H302-H312-H314-H400 M-factor (acute): 1 Specific concentration limit (SCL): Acute Tox. 3; H301: C ≥ 30% Acute Tox. 4; H312: C ≥ 30% Skin Corr. 1B; H314: C ≥ 5% Aquatic Acute 1; H400: C ≥ 25%	0 - 1 weight-%
CAS No.: 9014-01-1 EC No.: 232-752-2	Subtilisin Eye Dam. 1, Resp. Sens. 1, STOT SE 3, Skin Irrit. 2 Danger H315-H318-H334-H335	0 - 1 weight-%
CAS No.: 9001-62-1 EC No.: 232-619-9	Lipase, triacylglycerol Resp. Sens. 1 Danger H334	0 - 1 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Warning First aider: Pay attention to self-protection! Use personal protection equipment.

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

Skin corrosion/irritation Serious eye damage/eye irritation

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

Treat symptomatically.

You can refer to data sources in section 16 to find detailed toxicity information of each component.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Foam Extinguishing powder Carbon dioxide (CO₂) Water spray

Unsuitable extinguishing media:

None known.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Keep out of reach of children. Avoid contact with eyes and skin. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Remove persons to safety. Provide eye shower and label its location conspicuously

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Avoid release of large amounts to the environment. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Subsequently wash off with: Water

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special measures are necessary.

Environmental precautions:

Avoid release of large amounts to the environment.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. storage temperature: 5-40 °C

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Floors should be impervious, resistant to liquids and easy to clean. Material, alkali-resistant

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

Storage class (TRGS 510, Germany): 8B - Non-combustible corrosive substances

7.3. Specific end use(s)

Recommendation:

Some of the uses of the product mentioned in Section 1.2. No other specific uses are stipulated. Observe instructions for use.

Industrial sector specific solutions:

Sanitary cleaner, corrosive

GISCODE:

GS80

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 10 ppm (26 mg/m ³) ② 20 ppm (52 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)
IOELV (EU)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin)
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)

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8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	1.5 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	3 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects

Substance name	PNEC Value	① PNEC type
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	2.2 mg/l	① PNEC aquatic, freshwater
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	0.22 mg/l	① PNEC aquatic, marine water
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	43 mg/l	① PNEC sewage treatment plant
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	0.72 mg/kg bw/day	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection DIN EN 166

Skin protection:

Wash hands before breaks and after work. Thorough skin-cleansing after handling the product. Apply skin care products after work. Hand protection: EN ISO 374 Tested protective gloves must be worn.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection:

Use only in well-ventilated areas. With correct and proper use, and under normal conditions, breathing protection is not required.

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Other protection measures:

General health and safety measures: When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use.

8.2.3. Environmental exposure controls

See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: light yellow

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	≥ 6 - ≤ 10	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	≥ 0.98 - ≤ 1.06 g/ml	20 °C		
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	completely miscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

There is no dangerous reactions known when use as prescribed and with proper storage. Risk of explosion if heated under confinement. The product itself does not burn.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

No data available

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10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic Do not breathe gas/vapour.

SECTION 11: Toxicological information

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

Substance name	Toxicological information
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	LD₅₀ oral: 5,840 mg/kg (Ratte) OECD LD₅₀ dermal: 9,530 mg/kg (Kaninchen)
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	LD₅₀ oral: >1,780 - <2,000 mg/kg (Ratte) LC₅₀ Acute inhalation toxicity (dust/mist): >1 - <5 mg/l 4 h
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	LD₅₀ oral: ≥5,050 mg/kg (Ratte) OECD LD₅₀ dermal: ≥12,800 mg/kg (Kaninchen) OECD LC₅₀ Acute inhalation toxicity (gas): ≥4 mg/l (Ratte)
Benzalkonium chloride CAS No.: 8001-54-5 EC No.: 264-151-6	LD₅₀ oral: 240 mg/kg (Ratte) OECD
Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2	LD₅₀ oral: 1,800 mg/kg (Rat) OECD 401
Lipase, triacylglycerol CAS No.: 9001-62-1 EC No.: 232-619-9	LD₅₀ oral: >2,000 mg/kg OECD 401 OECD 420

Acute oral toxicity:

Harmful if swallowed.

Acute dermal toxicity:

The classification criteria for this hazard class are not met by definition.

Acute inhalation toxicity:

The classification criteria for this hazard class are not met by definition.

Skin corrosion/irritation:

Causes burns.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

Contains: Subtilisin, Lipase, triacylglycerol. May produce an allergic reaction.

Germ cell mutagenicity:

The classification criteria for this hazard class are not met by definition.

Carcinogenicity:

The classification criteria for this hazard class are not met by definition.

Reproductive toxicity:

The classification criteria for this hazard class are not met by definition.

STOT-single exposure:

The classification criteria for this hazard class are not met by definition.

STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

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Additional information:

The product has not been tested. The toxicology data of the ingredients listed were supplied by manufacturers of raw materials.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	LC₅₀ : >486 - 3,090 mg/l 4 d (fish) EC₅₀ : >500 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) DIN 38412 / part 11 NOEC : 25 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211 EC₅₀ : >100 mg/l 3 d (Algae/water plant)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	LC₅₀ : ≥9,640 mg/l 4 d (Fische) OECD 202 (Daphnien, Immobilisierung) EC₅₀ : ≥1,400 mg/l 2 d (Daphnien) EC₅₀ : ≥1,000 mg/l 4 d (Algen)
Benzalkonium chloride CAS No.: 8001-54-5 EC No.: 264-151-6	LC₅₀ : 1.25 mg/l 4 d (Fische) OECD 203 (Fische, akute Toxizität) EC₅₀ : 0.2 mg/l 3 d (Algen) OECD 201 (Algen, Wachstumshemmung)
Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2	LC₅₀ : 8.2 mg/l 4 d (fish) OECD 203 EC₅₀ : 0.586 mg/l 2 d (crustaceans) OECD 202 ErC₅₀ : 0.83 mg/l 3 d (Algae/water plant) OECD 201
Lipase, triacylglycerol CAS No.: 9001-62-1 EC No.: 232-619-9	EC₅₀ : >37.4 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 LC₅₀ : >68.3 mg/l 4 d (fish) OECD 203 ErC₅₀ : >18 mg/l 3 d (Algae/water plant) OECD 201

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	Yes, rapidly	
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	Yes, rapidly	
Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2	Yes, rapidly	
Lipase, triacylglycerol CAS No.: 9001-62-1 EC No.: 232-619-9	Yes, rapidly	

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
ethane-1,2-diol CAS No.: 107-21-1	—

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Substance name	Results of PBT and vPvB assessment
EC No.: 203-473-3	
tetrasodium ethylenediaminetetraacetate CAS No.: 64-02-8 EC No.: 200-573-9	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	—
Benzalkonium chloride CAS No.: 8001-54-5 EC No.: 264-151-6	—
Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2	—
Lipase, triacylglycerol CAS No.: 9001-62-1 EC No.: 232-619-9	—

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

07 06 99 Wastes not otherwise specified

Waste code packaging:

15 01 10 * packaging containing residues of or contaminated by dangerous substances

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

13.2. Additional information

Dispose waste in accordance with national regulations!

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3267	UN 3267	UN 3267	UN 3267
14.2. UN proper shipping name			
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.3. Transport hazard class(es)

 8	 8	 8	 8
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14.4. Packing group

III	III	III	III
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14.5. Environmental hazards

No	No	No	No
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14.6. Special precautions for user

Special provisions: 274 Limited quantity (LQ): 5L-E1 Hazard identification number (Kemler No.): 80 Classification code: C7 tunnel restriction code: (E) Remark:	Special provisions: 274 Limited quantity (LQ): 5L-E1 Classification code: C7 Remark:	Special provisions: 223, 224 Limited quantity (LQ): 5L-E1 EmS-No.: F-A; S-B Remark:	Special provisions: Limited quantity (LQ): E1, Y841-1L, 852-5L, 856-60L Remark: ERG: 8L
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14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Class II-B Medical product according to Medical Devices Directive 93/42/EEC with amendment 2007/47/EC.

Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Classification according to Regulation (EC) No 1272/2008 [CLP], according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 453/2010). Classification according to Directive 67/548/EEC or 1999/45/EC. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

5 MuSchRiV. 22 JArbSchG. 4 MuSchRiV.

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

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Technische Anleitung Luft (TA-Luft)

Remark:

Total dust emission value may not be exceeded. (see No. 5.2.1).

Water hazard class

WGK:

2 - Significantly water-hazardous

Source:

Self-classification

Other regulations, restrictions and prohibition regulations

TRGS 401 "Risks resulting from skin contact - identification, assessment, measures"

TRGS 510 "Storage of hazardous substances in non-stationary containers"

BGI 595 "Instructions M 004: Irritating substances / corrosive substances"

15.2. Chemical Safety Assessment

not relevant

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

You can refer to data sources below to find detailed toxicity information of each component. <http://www.baua.de/> <http://gestis.itrust.de/> <http://www.gefahrstoff-info.de/> <http://esis.jrc.ec.europa.eu/> <http://www.echemportal.org/> <http://www.gischem.de>

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

16.6. Training advice

Do not handle until all safety precautions have been read and understood.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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16.7. Additional information

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