

# SAFETY DATA SHEET

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

Revision date: 3 Apr 2025

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## Mabanol pH-Stabilisierer

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

#### \* 1.1. Product identifier

Trade name/designation:

Mabanol pH-Stabilisierer

UFI:

ASA5-0NM1-9W0T-KTMG

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

Use of the substance/mixture:

Industrial uses

#### \* 1.3. Details of the supplier of the safety data sheet

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

Mabanol GmbH & Co. KG

Am Strandkai 1

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

### 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
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

#### \* 2.2. Label elements

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

Hazard pictograms:



GHS05

Corrosion

Signal word: Danger

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### Hazard components for labelling:

( $\text{A}\pm$ )-2-aminobutan-1-ol; 2-amino-2-ethylpropanediol; 2-Methylamino-2-methyl-1-propanol

#### Hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

#### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
------	----------------------------------------------------

#### Precautionary statements Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing and eye protection/face protection.

#### Precautionary statements Response

P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

### Additional information:

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 124-68-5 EC No.: 204-709-8 Index No.: 603-070-00-6 REACH No.: 01-2119475788-16	<b>2-amino-2-methylpropanol</b> Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning <b>Acute Toxicity Estimate</b> ATE (oral) 2,900 mg/kg ATE (dermal) > 2,000 mg/kg	> 50 weight-%
CAS No.: 96-20-8 EC No.: 235-940-2	<b>(<math>\text{A}\pm</math>)-2-aminobutan-1-ol</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Eye Dam. 1 (H318), Skin Corr. 1B (H314) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 1,800 mg/kg	15 - < 25 weight-%
CAS No.: 115-70-8 EC No.: 204-101-2	<b>2-amino-2-ethylpropanediol</b> Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 2,500 mg/kg	< 10 weight-%
CAS No.: 27646-80-6 EC No.: 608-121-6	<b>2-Methylamino-2-methyl-1-propanol</b> Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 500 mg/kg	< 2 weight-%

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

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### SECTION 4: First aid measures

#### \* 4.1. Description of first aid measures

##### General information:

Remove affected person from the danger area and lay down. When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

##### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks.). Call a physician immediately.

##### In case of skin contact:

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Call a physician immediately.

##### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### Following ingestion:

Rinse mouth immediately and drink 1 glass of of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

##### Self-protection of the first aider:

First aider: Pay attention to self-protection!

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

No information available.

#### 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:

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Water spray jet. Water mist.

##### Unsuitable extinguishing media:

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic. In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

##### Personal precautions:

Use personal protection equipment. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Keep away from sources of ignition - No smoking.

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### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up:

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

## 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). Use only in well-ventilated areas. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists. Keep away from sources of ignition - No smoking.

#### Fire prevent measures:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges. Have fire-extinguishers in readiness before opening containers.

#### Environmental precautions:

Do not allow to enter into surface water or drains.

#### 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. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Only use containers specifically approved for the substance/product. Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage.

#### Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area. Provide earthing of containers, equipment, pumps and ventilation facilities. Floors should be impervious, resistant to liquids and easy to clean.

#### Hints on storage assembly:

Keep away from: Oxidizing agent.

Do not store together with: Food and feedingstuffs.

**Storage class (TRGS 510, Germany):** 8A - Combustible corrosive substances

#### Further information on storage conditions:

Recommended storage temperature: 5 - 40°C.

Protect against: Frost. Heat. UV-radiation/sunlight. Water. Humidity.

### 7.3. Specific end use(s)

No data available

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### 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) from 1 Sept 2015	<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	① 1 ppm (3.7 mg/m <sup>3</sup> ) ② 2 ppm (7.4 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) DFG, H, Y, 11
TRGS 900 (DE) from 1 Sept 2017	<b>(Ä±)-2-aminobutan-1-ol</b> CAS No.: 96-20-8 EC No.: 235-940-2	① 1 ppm (3.7 mg/m <sup>3</sup> ) ② 2 ppm (7.4 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden, Aerosol und Dampf) DFG, AGS, H, Z, 11

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	117.5 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	20.8 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
<b>(Ä±)-2-aminobutan-1-ol</b> CAS No.: 96-20-8 EC No.: 235-940-2	1.4 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>(Ä±)-2-aminobutan-1-ol</b> CAS No.: 96-20-8 EC No.: 235-940-2	1.31 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	0.08 mg/L	① PNEC aquatic, freshwater
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	0.008 mg/L	① PNEC aquatic, marine water
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	300 mg/L	① PNEC sewage treatment plant
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	7.664 mg/kg	① PNEC sediment, freshwater
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	0.7664 mg/kg	① PNEC sediment, marine water
<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8	1.4859 mg/kg	① PNEC soil

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Substance name	PNEC Value	① PNEC type
( $\hat{A}$ ±)-2-aminobutan-1-ol CAS No.: 96-20-8 EC No.: 235-940-2	0.91 µg/L	① PNEC aquatic, freshwater
( $\hat{A}$ ±)-2-aminobutan-1-ol CAS No.: 96-20-8 EC No.: 235-940-2	0.091 µg/L	① PNEC aquatic, marine water
( $\hat{A}$ ±)-2-aminobutan-1-ol CAS No.: 96-20-8 EC No.: 235-940-2	10 mg/L	① PNEC sewage treatment plant
( $\hat{A}$ ±)-2-aminobutan-1-ol CAS No.: 96-20-8 EC No.: 235-940-2	0.00359 mg/ kg	① PNEC sediment, freshwater
( $\hat{A}$ ±)-2-aminobutan-1-ol CAS No.: 96-20-8 EC No.: 235-940-2	0.00036 mg/ kg	① PNEC sediment, marine water

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection (EN 166).

##### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Wearing time with permanent contact:

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber).

Thickness of the glove material: 0,70 mm. Breakthrough time:: > 480 min.

Wearing time with occasional contact (splashes):

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber).

Thickness of the glove material: 0,40 mm. Breakthrough time:: > 30 min.

Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Suitable protective clothing: flame-resistant.

##### Respiratory protection:

Usually no personal respiratory protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values. insufficient ventilation. aerosol or mist formation. Suitable respiratory protection apparatus: Combination filtering device.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### \* 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** not determined

**flammability:** Yes

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### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	11.6	20 °C	① DIN 51369 ② 5 weight-%
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	> 110 °C		① EN ISO 2592
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.96 g/cm <sup>3</sup>	15 °C	① DIN EN ISO 12185
Bulk density	not applicable		
Water solubility	miscible	20 °C	
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Oxidising agent, strong. Acid.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8
<b>LD<sub>50</sub> oral:</b> 2,900 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)
<b>(<math>\bar{A}</math>±)-2-aminobutan-1-ol</b> CAS No.: 96-20-8 EC No.: 235-940-2
<b>LD<sub>50</sub> oral:</b> 1,800 mg/kg (Rat)
<b>2-amino-2-ethylpropanediol</b> CAS No.: 115-70-8 EC No.: 204-101-2
<b>LD<sub>50</sub> oral:</b> 2,500 mg/kg (Rat)

### Acute oral toxicity:

No data available. The statement is derived from the properties of the single components.  
Based on available data, the classification criteria are not met.

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### Acute dermal toxicity:

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

### Acute inhalation toxicity:

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

### Skin corrosion/irritation:

Causes skin irritation.

### Serious eye damage/irritation:

Causes serious eye damage.

### Respiratory or skin sensitisation:

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

### Germ cell mutagenicity:

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

### Carcinogenicity:

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

### Reproductive toxicity:

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

### STOT-single exposure:

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

### STOT-repeated exposure:

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

### Aspiration hazard:

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

For viscosity data, see section 9.

### Additional information:

Processing vapours can irritate the respiratory tracts, skin and eyes.

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No information available.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8
LC <sub>50</sub> : 190 mg/L 4 d (fish, <i>Lepomis macrochirus</i> (Bluegill)) OECD 203
LC <sub>50</sub> : 193 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
EC <sub>50</sub> : 565 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> )
<b>(Ä±)-2-aminobutan-1-ol</b> CAS No.: 96-20-8 EC No.: 235-940-2
LC <sub>50</sub> : 270 mg/L 4 d (fish, <i>Leuciscus idus</i> (golden orfe) <i>Leuciscus idus</i> (golden orfe)) OECD 203
EC <sub>50</sub> : 115 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
ErC <sub>50</sub> : >0.94 mg/L 4 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> )
<b>2-amino-2-ethylpropanediol</b> CAS No.: 115-70-8 EC No.: 204-101-2
LC <sub>50</sub> : 460 mg/L 4 d (fish, <i>Leuciscus idus</i> (golden orfe))
EC <sub>50</sub> : 668 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))
ErC <sub>50</sub> : 548 mg/L 3 d (Algae/water plant)

### Aquatic toxicity:

Harmful to aquatic life.

### Additional ecotoxicological information:

There are no data available on the mixture itself. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Do not allow uncontrolled discharge of product into the environment.

### \* 12.2. Persistence and degradability

#### Abiotic degradation:

Poorly eliminated from water.

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### Biodegradation:

Readily biodegradable (according to OECD criteria).

### \* 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

No information available.

### 12.4. Mobility in soil

No information available.

### \* 12.5. Results of PBT and vPvB assessment

<b>2-amino-2-methylpropanol</b> CAS No.: 124-68-5 EC No.: 204-709-8
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>(<math>\hat{A}</math><math>\pm</math>)-2-aminobutan-1-ol</b> CAS No.: 96-20-8 EC No.: 235-940-2
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>2-amino-2-ethylpropanediol</b> CAS No.: 115-70-8 EC No.: 204-101-2
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>2-Methylamino-2-methyl-1-propanol</b> CAS No.: 27646-80-6 EC No.: 608-121-6
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

12 01 99	Wastes not otherwise specified
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#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>* 14.1. UN number or ID number</b>			
UN 3267	No dangerous good in sense of these transport regulations.	UN 3267	UN 3267
<b>* 14.2. UN proper shipping name</b>			
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (( $\hat{A}$ $\pm$ )-2-aminobutan-1-ol)	No dangerous good in sense of these transport regulations.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (( $\hat{A}$ $\pm$ )-2-aminobutan-1-ol)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (( $\hat{A}$ $\pm$ )-2-aminobutan-1-ol)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.3. Transport hazard class(es)</b>			
 8	not relevant	 8	 8
<b>14.4. Packing group</b>			
III	not relevant	III	III
<b>14.5. Environmental hazards</b>			
No	not relevant	No	No
<b>14.6. Special precautions for user</b>			
<b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C7 <b>Tunnel restriction code:</b> (E)	not relevant	<b>Special Provisions:</b> IMDG-Code segregation group 18 - Alkalis <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>EmS-No.:</b> F-A, S-B	<b>Special Provisions:</b> E 1

### 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

##### Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3. 75.

##### Other regulations (EU):

This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

#### 15.1.2. National regulations

##### [DE] 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).

##### Störfallverordnung (12. BImSchV)

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Water hazard class

##### WGK:

2 - obviously hazardous to water

##### Remark:

Self-classification (mixture; calculation rule).

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### Other regulations, restrictions and prohibition regulations

No flammable liquid according to BetrSichV.

### 15.2. Chemical Safety Assessment

No information available.

### \* 15.3. Additional information

Water hazard class (WGK): 2 (obviously hazardous to water).

## SECTION 16: Other information

### \* 16.1. Indication of changes

1.1.	Product identifier
1.3.	Details of the supplier of the safety data sheet
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
14.1.	UN number or ID number
14.2.	UN proper shipping name
14.3.	Transport hazard class(es)
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

NIOSH: National Institute of Occupational Safety and Health

NOAEL: No observed adverse effect level

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NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)

PBT: persistent bioaccumulative toxic

PNEC: predicted no effect concentration

REL: Recommended exposure limit (Empfohlene Expositionsgrenze)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)

SVHC: substance of very high concern

TLV: Threshold Limit Values (Schwellwert Grenzwerte)

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### 16.3. Key literature references and sources for data

No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

### \* 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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\* Data changed compared with the previous version.