

SAFETY DATA SHEET

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

Revision date: 19 Feb 2025

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Version: 1



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

1.1. Product identifier

Trade name/designation:

Mabanol Cut 162 BF

UFI:

XHAM-Q9PS-V4AH-7Q5F

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

Use of the substance/mixture:

Metalworking fluids

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 Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

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Hazard components for labelling:

1-aminopropan-2-ol

Hazard statements for health hazards

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statements Prevention

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing and eye protection/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Additional information:

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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.: 105-59-9 EC No.: 203-312-7 Index No.: 603-079-00-5 REACH No.: 01-2119488970-24	2,2'-methyliminodiethanol Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) 4,680 mg/kg ATE (dermal) > 2,000 mg/kg	1 - < 5 weight-%
CAS No.: 68608-26-4 EC No.: 271-781-5	Sulfonic acids, petroleum, sodium salts Eye Irrit. 2 (H319) ⚠ Warning	1 - < 5 weight-%
CAS No.: 78-96-6 EC No.: 201-162-7 REACH No.: 01-2119475331-43	1-aminopropan-2-ol Acute Tox. 4 (H312), Skin Corr. 1B (H314) ⚠ Danger Specific concentration limit (SCL) Eye Irrit. 2; H319: C \geq 61.5% Acute Toxicity Estimate ATE (oral) 2,813 mg/kg ATE (dermal) 1,851 mg/kg	1.9 - < 2.6 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:

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 victim out of the danger area. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

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In case of skin contact:

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting.

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

The following symptoms may occur: Headache. Nausea. Dizziness. Respiratory complaints. Symptoms can occur only after several hours.

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 (CO₂). Sand.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Phosphorus oxides.

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. Remove persons to safety. Ventilate affected area. Avoid contact with skin, eyes and clothes. Special danger of slipping by leaking/spilling product. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition.

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. 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.

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6.3. Methods and material for containment and cleaning up

For containment:

Cover drains. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. 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. Handle and open container with care. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking.

Fire prevent measures:

Only use the material in places where open light, fire and other flammable sources can be kept away.

Environmental precautions:

Do not empty into drains. Do not allow to enter into soil/subsoil. Shafts and sewers must be protected from entry of the product.

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:

Do not empty into drains. Do not allow to enter into soil/subsoil. Shafts and sewers must be protected from entry of the product.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs.

Keep away from: Oxidizing agent.

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Recommended storage temperature: 5 - 40°C.

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

storage stability: max. 12 month(s).

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
DFG (DE) from 1 Jul 2023	2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	① 0.4 ppm (2 mg/m ³) ② 0.4 ppm (2 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) H
TRGS 900 (DE)	1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	① 2 ppm (5.8 mg/m ³) ② 4 ppm (11.6 mg/m ³) ⑤ (Aerosol und Dampf) AGS, 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
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	26 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	19 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	0.66 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	3.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	4.5 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	3.5 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.1 mg/L	① PNEC aquatic, freshwater
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.0045 mg/L	① PNEC aquatic, marine water
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	10 mg/L	① PNEC sewage treatment plant
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.78 mg/kg	① PNEC sediment, freshwater

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Substance name	PNEC Value	① PNEC type
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	1 mg/L	① PNEC aquatic, freshwater
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	1 mg/L	① PNEC aquatic, marine water
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	100 mg/L	① PNEC sewage treatment plant
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	723,500,000 mg/kg	① PNEC sediment, freshwater
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	723,500,000 mg/kg	① PNEC sediment, marine water
Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5	868,700,000 mg/kg	① PNEC soil
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	0.0327 mg/L	① PNEC aquatic, freshwater
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	0.00327 mg/kg	① PNEC aquatic, marine water
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	3.3 mg/L	① PNEC sewage treatment plant
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	0.177 mg/kg	① PNEC sediment, freshwater

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).

Suitable material: NBR (Nitrile rubber).

Thickness of the glove material: $\geq 0,12$ mm. Breakthrough time: > 240 min.

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. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Unsuitable material: Butyl caoutchouc (butyl rubber). NR (natural rubber, Natural latex). CR (polychloroprene, chloroprene rubber).

Suitable protective clothing: flame-resistant.

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Respiratory protection:

Usually no personal respirative 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.

8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: light brown

Odour: not determined

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	9.7	20 °C	② 8 weight-%
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	> 120 °C		
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	0.98 g/cm ³	20 °C	
Bulk density	not applicable		
Water solubility	miscible	20 °C	
Dynamic viscosity	No data available		
Kinematic viscosity	180 mm ² /s	20 °C	

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 stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong. Acids.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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SECTION 11: Toxicological information

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

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
--

LD₅₀ oral: 4,680 mg/kg (Rat)
--

LD₅₀ dermal: >2,000 mg/kg (Rabbit)
--

1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7
--

LD₅₀ oral: 2,813 mg/kg (Rat)
--

LD₅₀ dermal: 1,851 mg/kg (Rabbit)

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.

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 irritation.

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.

11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

12.1. Toxicity

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
--

LC₅₀: 1,466 mg/L 4 d (fish)

EC₅₀: 233 mg/L 2 d (crustaceans)
--

EC₅₀: >100 mg/L 3 d (Algae/water plant)

1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7
--

LC₅₀: 215 - 464 mg/L 4 d (fish, <i>Leuciscus idus</i> (golden orfe)) DIN 38412 / part 15
--

EC₅₀: 108.8 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))

EC₅₀: 32.7 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) DIN 38412 / part 9

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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

1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7
--

Biodegradation: —

Remark: Readily biodegradable (according to OECD criteria).
--

Biodegradation:

No information available.

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

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
--

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Sulfonic acids, petroleum, sodium salts CAS No.: 68608-26-4 EC No.: 271-781-5
--

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7
--

Results of PBT and vPvB assessment: 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

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. 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

13 02 05 *	mineral-based non-chlorinated engine, gear and lubricating oils
------------	---

*: Evidence for disposal must be provided.

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:

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.

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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			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

not relevant.

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 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: Not subject to the SEVESO III directive.

Observe in addition any national regulations!

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

Volatile organic compounds (VOC) content in percent by weight: 3 weight-%

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

Water hazard class

WGK:

1 - slightly hazardous to water

Remark:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3. Additional information

Water hazard class (WGK): 1 (slightly hazardous to water).

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SECTION 16: Other information

16.1. Indication of changes

No data available

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

LC₅₀: Lethal concentration, 50 percent

LD₅₀: Lethal dose, 50 percent

NIOSH: National Institute of Occupational Safety and Health

NOAEL: No observed adverse effect level

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 Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

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

Hazard statements	
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

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.