

SAFETY DATA SHEET

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

Revision date: 07-Mar-2019

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Version: 5.2

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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.:

1057

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

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

1.3. Details of the supplier of the safety data sheet

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

Euroteam Bauchemie GmbH

An der Mühle 1

15345 Altlandsberg

Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (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
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
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:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

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Hazard components for labelling:

N-(3-(trimethoxysilyl)propyl)ethylenediamine; 3-trimethoxysilylpropane-1-thiol

hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

hazard statements for health hazards

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU)

EUH208 Contains 3-trimethoxysilylpropane-1-thiol, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

Precautionary statements Prevention

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

P240 Ground and bond container and receiving equipment.

P243 Take action to prevent static discharges.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.: 64-17-5 EC No.: 200-578-6 INDEX No.: 603-002-00-5 REACH No.: 01-2119457610-43-0XXX	ethanol Flam. Liq. 2 Danger H225	57 - ≤ 95 Wt %
CAS No.: 1760-24-3 EC No.: 217-164-6 REACH No.: 01-2119970215-39-0001	N-(3-(trimethoxysilyl)propyl)ethylenediamine Acute Tox. 4, Eye Dam. 1, Skin Sens. 1 Danger H317-H318-H332	1 - ≤ 2.5 Wt %
CAS No.: 4420-74-0 EC No.: 224-588-5 REACH No.: 01-2120763539-41-0001	3-trimethoxysilylpropane-1-thiol Acute Tox. 4, Aquatic Chronic 2, Skin Sens. 1 Warning H302-H317-H411	1 - ≤ 2.5 Wt %

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 place in recovery position and seek medical advice. Do not leave affected person unattended.

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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:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After 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:

Use personal protection equipment.

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

Allergic reactions Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alkoholbeständiger Schaum, Dry extinguishing powder

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

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:

Avoid contact with eyes and skin. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). 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 (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

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6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Ensure adequate ventilation of the storage area. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Remove all sources of ignition. Take precautionary measures against static discharges.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep container in a well-ventilated place.

Storage class: 3 - Flammable liquids

7.3. Specific end use(s)

No data available

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)	ethanol CAS No.: 64-17-5	① 200 ppm (380 mg/m ³) ② 400 ppm (1,520 mg/m ³)
TRGS 900 (DE)	ethanol CAS No.: 64-17-5	① 500 ppm (960 mg/m ³) ② 1,000 ppm (1,920 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection DIN EN 166

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Skin protection:

(Recommended material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), Butyl caoutchouc (butyl rubber)). Tested protective gloves must be worn EN ISO 374. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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 material: Breakthrough time (maximum wearing time) min Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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: colourless

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	6			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 78 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	12 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	≈ 425 °C			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	≈ 148 hPa	50 °C		
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
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

Highly flammable liquid and vapour.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

SECTION 7: Handling and storage / Strong acid, Oxidising agent, strong

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10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Nitrogen oxides (NO_x),

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
64-17-5	ethanol	LD₅₀ oral: 10,470 mg/kg (Rat) OECD 401 LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402 LC₅₀ Acute inhalation toxicity (vapour): 51 mg/l 4 h (Rat) OECD 403
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: 2,000 mg/kg (Rabbit) ATE inhalativ Dämpfe: 300 mg/l ATE inhalativ Stäube+Nebel: 1.56 mg/l
4420-74-0	3-trimethoxysilylpropane-1-thiol	LD₅₀ dermal: 1,922 mg/kg (Rat) ATE inhalativ Dämpfe: 1,000 mg/l LD₅₀ oral: 850 mg/kg (Ratte)

Acute oral toxicity:

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:

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

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Contains 3-trimethoxysilylpropane-1-thiol, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction. May cause an allergic skin reaction.

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.

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Additional information:

The product has not been tested. The statement is derived from the properties of the single components. No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
64-17-5	ethanol	LC₅₀ : 15,300 mg/l 4 d (Pimephales promelas (fat head minnow)) LC₅₀ : 5,012 mg/l 2 d (Ceriodaphnia spec) EC₅₀ : 12,340 mg/l 2 d (Daphnia magna (Big water flea)) LC₅₀ : 13,000 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) OECD 203 EC₅₀ : 275 mg/l 3 d
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	EC₅₀ : 87.4 mg/l 2 d (Daphnia magna (Big water flea)) IC₅₀ : 30.7 mg/l LC₅₀ : >100 mg/l (Lepomis macrochirus (Bluegill))
4420-74-0	3-trimethoxysilylpropane-1-thiol	EC₅₀ : 6.7 mg/l 2 d (Daphnia magna (Big water flea)) NOEC : 40 mg/l

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
64-17-5	ethanol	Yes, rapidly	
4420-74-0	3-trimethoxysilylpropane-1-thiol	No	

Additional information:

Do not allow to enter into soil/subsoil.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
64-17-5	ethanol	-0.3	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64-17-5	ethanol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	—
4420-74-0	3-trimethoxysilylpropane-1-thiol	—

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

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13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 01 11 * Waste paint and varnish containing organic solvents or other 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.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (ethanol, 3-trimethoxysilylpropane-1-thiol)	FLAMMABLE LIQUID, N.O.S. (ethanol, 3-trimethoxysilylpropane-1-thiol)	FLAMMABLE LIQUID, N.O.S. (ethanol, N-(3-(trimethoxysilyl)propyl)ethylenediamine , 3-trimethoxysilylpropane-1-thiol)	FLAMMABLE LIQUID, N.O.S. (ethanol, 3-trimethoxysilylpropane-1-thiol)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: 274 601 640D Limited quantity (LQ): 1 L Excepted Quantities: E2 Hazard identification number (Kemler No.): 33 Classification code: F1 tunnel restriction code: (D/E) Remark:	Special provisions: 274 601 640D Limited quantity (LQ): 1 L Excepted Quantities: E2 Classification code: F1 Remark:	Special provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities: E2 EmS-No.: F-E, S-E Remark:	Special provisions: A3 Excepted Quantities: E2 Remark:

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Only use containers specifically approved for the substance/product.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Description:

Classification according to VwVwS, Annex 4.

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

2.1.	Classification of the substance or mixture
2.2.	Label elements
12.1.	Toxicity

16.2. Abbreviations and acronyms

No data available

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]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

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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.

* Data changed compared with the previous version