

# Safety Data Sheet

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



**Trade name :** eni aquamet BAG-S; Art.-no. 0587  
**Revision date :** 01.11.2018  
**Print date :** 29.11.2018

**Version (Revision) :** 6.0.0 (5.0.0)

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

### 1.1 Product identifier

eni aquamet BAG-S

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

#### Relevant identified uses

Metal working fluids

#### Uses advised against

No information available.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/downstream user/distributor)

Eni Schmiertechnik GmbH

#### Street :

Paradiesstraße 14

#### Postal code/city :

97080 Würzburg

#### Telephone :

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#### Information contact :

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### 1.4 Emergency Telephone Number

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Carc. 1B ; H350 - Carcinogenicity : Category 1B ; May cause cancer.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Muta. 2 ; H341 - Germ cell mutagenicity : Category 2 ; Suspected of causing genetic defects.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

### 2.2 Label elements

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

##### Hazard pictograms



Health hazard (GHS08) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2)

3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6

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### Hazard statements

H350 May cause cancer.  
H341 Suspected of causing genetic defects.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P405 Store locked up.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

Preparation of solvent refined mineral oils with low content of aromatic hydrocarbons and additives.

#### Hazardous ingredients

Distillates (petroleum), hydrotreated light naphthenic ; REACH registration No. : 01-2119480375-34-0000 ; EC No. : 265-156-6; CAS No. : 64742-53-6

Weight fraction :  $\geq 15 - < 20$  %  
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

2-(2-BUTOXYETHOXY)ETHANOL ; REACH registration No. : 01-2119475104-44-0006 ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2)

Weight fraction :  $\geq 1 - < 2,5$  %  
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Carc. 1B ; H350 Muta. 2 ; H341 STOT RE 2 ; H373 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

2-butyloctan-1-ol ; REACH registration No. : 01-2119978234-31-0000 ; EC No. : 223-470-0; CAS No. : 3913-02-8

Weight fraction :  $\geq 1 - < 2,5$  %  
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

Amidpolyglycoether ; REACH registration No. : 01-2119565130-50 ; CAS No. : 85536-23-8

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

3-IODO-2-PROPYNYL BUTYLCARBAMATE ; EC No. : 259-627-5; CAS No. : 55406-53-6

Weight fraction :  $\geq 0,1 - < 0,25$  %  
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 STOT RE 1 ; H372 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

BORIC ACID ; REACH registration No. : 01-2119486683-25- ; EC No. : 233-139-2; CAS No. : 10043-35-3

Weight fraction :  $< 5,5$  %  
Classification 1272/2008 [CLP] : Repr. 1B ; H360FD

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### Additional information

The highly refined mineral oil contains less than 3% (w/w) DMSO-extract, according to IP 346 and is not considered to be carcinogenic.

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

### 3.3 Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Boric Acid.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove victim out of the danger area. If unconscious place in recovery position and seek medical advice. When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

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

#### In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash 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.

#### After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. Where appropriate artificial ventilation. Do NOT induce vomiting.

### 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>), Sand, Water mist,

#### Unsuitable extinguishing media

Strong water jet

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

#### Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>), Smoke and other incomplete combustion products.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

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

### 5.4 Additional information

Do not inhale explosion and combustion gases. Remove persons to safety. Use water spray jet to protect personnel

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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.

### SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove persons to safety. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Remove all sources of ignition.

#### 6.2 Environmental precautions

Cover drains. 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

Cover drains. Stop and contain spill/release if it can be done safely. Prevent spread over a wide area (e.g. by containment or oil barriers).

##### For cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (e.g. 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

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

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas. Handle and open container with care. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking.

##### Protective measures

###### Measures to prevent fire

Usual measures for fire prevention.

###### Environmental precautions

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

##### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets.

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

##### Technical measures and storage conditions

Keep locked up. Store in a place accessible by authorized persons only.

##### Requirements for storage rooms and vessels

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

##### Hints on joint storage

Keep away from: Oxidizing agent

**Storage class (TRGS 510) :** 6.1C

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### Do not store together with

Food and feedingstuffs

### Further information on storage conditions

**Recommended storage temperature :** 5 - 40°C / 40 - 105°F.

**Protect against :** Frost Heat. UV-radiation/sunlight

**Storage stability :** Product may be stored for up to 12 months under described conditions.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 10 ppm / 67 mg/m<sup>3</sup>

Peak limitation : 1,5(I)

Remark : Y

Version : 17.10.2017

Limit value type (country of origin) : STEL ( EC )

Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>

Version : 07.02.2006

Limit value type (country of origin) : TWA ( EC )

Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>

Version : 07.02.2006

3-iodo-2-propynyl butylcarbamate ; CAS No. : 55406-53-6

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 0,005 ppm / 0,058 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Sh, Y

Version : 17.10.2017

Boric acid ; CAS No. : 10043-35-3

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 0,5 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Y

Version : 17.10.2017

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 20 mg/kg

Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 67,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( BORIC ACID ; CAS No. : 10043-35-3 )

Exposure route : Dermal

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Exposure frequency : Long-term (repeated)  
Limit value : 392 mg/kg bw/d  
Limit value type : DNEL worker (systemic) ( BORIC ACID ; CAS No. : 10043-35-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 8,8 mg/m<sup>3</sup>

### Remark

The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation.

### PNEC

Limit value type : PNEC (Aquatic, freshwater) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 1 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 0,1 mg/l  
Limit value type : PNEC (Sediment, freshwater) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 4 mg/kg  
Limit value type : PNEC (Sediment, marine water) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 0,4 mg/kg  
Limit value type : PNEC (Sewage treatment plant) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 200 mg/l  
Limit value type : PNEC (Aquatic, freshwater) ( BORIC ACID ; CAS No. : 10043-35-3 )  
Limit value : 1,35 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( BORIC ACID ; CAS No. : 10043-35-3 )  
Limit value : 1,35 mg/l  
Limit value type : PNEC (Sediment, freshwater) ( BORIC ACID ; CAS No. : 10043-35-3 )  
Limit value : 1,8 mg/kg  
Limit value type : PNEC (Sediment, marine water) ( BORIC ACID ; CAS No. : 10043-35-3 )  
Limit value : 1,8 mg/kg  
Limit value type : PNEC (Sewage treatment plant) ( BORIC ACID ; CAS No. : 10043-35-3 )  
Limit value : 1,75 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

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.

### Personal protection equipment

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

### Eye/face protection

Eye glasses with side protection DIN EN 166

### Skin protection

#### Hand protection

Tested protective gloves must be worn: DIN EN 374 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.

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Do not wear gloves near rotary machines and tools.

### Suitable material :

Wearing time with permanent contact:

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,70 mm

Breakthrough time (maximum wearing time): > 480 min

Wearing time with occasional contact (splashes):

NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,40 mm

Breakthrough time (maximum wearing time): > 30 min

**Unsuitable material :** PVA (Polyvinyl alcohol),

**Breakthrough time (maximum wearing time):** 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.

### Body protection

Body protection: not required. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

### 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.

### General health and safety measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior to re-use. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** yellow

**Odour :** characteristic

#### Safety relevant basis data

<b>pH-value :</b>	( 4 % / 20 °C )		9,1		DIN 51369
<b>Melting point/melting range :</b>			not determined		
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	>	100	°C	
<b>Flash point :</b>		>	167	°C	DIN EN ISO 2592
<b>Lower explosion limit :</b>			0,6	Vol-%	
<b>Upper explosion limit :</b>			6,5	Vol-%	
<b>Vapour pressure :</b>	( 20 °C )		No data available		
<b>Density :</b>	( 15 °C )		0,99	g/cm <sup>3</sup>	DIN EN ISO 12185
<b>Water solubility :</b>	( 20 °C )		miscible		
<b>log P O/W :</b>			not applicable		
<b>Cinematic viscosity :</b>	( 20 °C )	approx.	170	mm <sup>2</sup> /s	DIN EN ISO 3104
<b>Ignition temperature :</b>		>	240	°C	
<b>Decomposition temperature :</b>			not determined		
<b>Odour threshold :</b>			No data available		
<b>Relative vapour density :</b>	( 20 °C )		No data available		
<b>Evaporation rate :</b>			not determined		
<b>Vapourisation rate :</b>			No data available		
<b>Maximum VOC content</b>			2,783	Wt %	

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**(Switzerland) :**

**Oxidising liquids :** Not oxidising.

**Explosive properties :** Not explosive according to EU A.14.

### 9.2 Other information

None

## 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.

### 10.6 Hazardous decomposition products

Formaldehyde

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological data are not available. The statement is derived from the properties of the single components.

#### Acute effects

No data available to indicate product may be an acute toxic oral, dermal or inhalation hazard.

#### Irritant and corrosive effects

Irritating to eyes and skin.

#### Sensitisation

May cause sensitization by skin contact.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Classification of mixtures as having effects of carcinogenicity, mutagenicity or toxicity for reproduction must be calculated from available information regarding substances in the mixture.

##### Carcinogenicity

May cause cancer.

##### Germ cell mutagenicity

Suspected of causing genetic defects.

##### Reproductive toxicity

No indications of human reproductive toxicity exist.

#### STOT-single exposure

##### STOT SE 1 and 2

Not expected to cause organ damage from a single exposure.

#### STOT-repeated exposure

##### STOT RE 1 and 2

Not expected to cause organ damage from prolonged or repeated exposure.

#### Aspiration hazard



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Based on the available data the classification criteria for aspiration toxicity are not met. For viscosity data, see section 9.

### SECTION 12: Ecological information

#### 12.1 Toxicity

For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

##### Aquatic toxicity

On the basis of existing data on ecotoxicology the following can be deduced: Harmful to aquatic life.

#### 12.2 Persistence and degradability

Part of the components is biodegradable.

#### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Other adverse effects

No information available.

#### 12.7 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product/Packaging disposal

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

###### Waste code product

12 01 07\*

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

(Waste key of the emulsion: 12 01 09\*)

###### Waste name

Mineral-based machining oils free of halogens (except emulsions and solutions).

###### Waste treatment options

###### Appropriate disposal / Product

Delivery to an approved waste disposal company. Dispose according to legislation.

###### Appropriate disposal / Package

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

###### Other disposal recommendations

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

### SECTION 14: Transport information

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### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### National regulations

-

##### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

##### Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

##### Additional information

##### Berufsgenossenschaftliche Regeln (BGR)

The product corresponds with TRGS 611.

To follow :

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-

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 02. Special rules for supplemental label elements for certain mixtures · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 08. Occupational exposure limit values · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Technische Anleitung Luft (TA-Luft) · 15. Water hazard class (WGK)

### 16.2 Abbreviations and acronyms

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
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)  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
GHS: Globally Harmonized System on the Classification and Labelling of Chemicals  
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
EC50: Effective concentration, 50 percent  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

### 16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

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

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### 16.6 Training advice

Provide adequate information, instruction and training for operators.

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day

# Safety Data Sheet

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



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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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