

Trade name :		
Revision date :		
Print date :		

Eni aquamet RU PG – FAD 12.12.2018 23.01.2019

Version	(Revision)	:
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5.0.0 (4.0.0)

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

# 1.1 Product identifier

- Eni aquamet RU PG FAD
- **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

Eni Schmiertechnik GmbH	r/downstream user/distributor)
Street :	Paradiesstraße 14
Postal code/city :	97080 Würzburg
Telephone :	(+49) 931-90098-0
Telefax :	(+49) 931-98442
Information contact : email:	Technical Department, Tel. (+49) 931 900 98-142 technik.wuerzburg@aqip.de, www.enischmiertechnik-datenblaetter.de
Environment Televille and Niccords and	

# 1.4 Emergency Telephone Number

# **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.

# 2.2 Label elements

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

# Hazard statements

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

P273 Avoid release to the environment.

# Special rules for supplemental label elements for certain mixtures

EUH208 Contains 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; 1,2-BENZISOTHIAZOL-3(2H)-ONE.May produce an allergic reaction.

# 2.3 Other hazards

None

# **SECTION 3: Composition/information on ingredients**

# 3.2 Mixtures

Description Base Oil and Additives Hazardous ingredients

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Distillates (petroleum), hydrotreated light naphthenic ; REACH registration No. : 01-2119480375-34-0000 ; EC No. : 265-156-6; CAS No. : 64742-53-6 Weight fraction : ≥ 10 - < 15 % 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 : ≥ 1 - < 5 % Classification 1272/2008 [CLP] : Eye Irrit. 2; H319 2-butyloctan-1-ol ; REACH registration No. : 01-2119978234-31-0000 ; EC No. : 223-470-0; CAS No. : 3913-02-8 Weight fraction : ≥ 1 - < 2,5 % Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411 Classification 1272/2008 [CLP] : 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; EC No. : 259-627-5; CAS No. : 55406-53-6 Weight fraction : ≥ 0,1 - < 0,25 % Acute Tox. 3 ; H331 STOT RE 1 ; H372 Eye Dam. 1 ; H318 Acute Tox. 4 ; Classification 1272/2008 [CLP] : H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410 1,2-BENZISOTHIAZOL-3(2H)-ONE ; REACH registration No. : 01-2120761540-60-XXXX ; EC No. : 220-120-9; CAS No. : 2634-33-5 Weight fraction : ≥ 0,005 - < 0,05 % Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1; H400 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

#### **Further ingredients**

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

#### Additional information

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



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cramps. 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 (CO2), 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 (CO2), Carbon monoxide, Nitrogen oxides (NOx), 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 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



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# **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 productimpregnated cleaning rags into your trouser pockets.

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

## 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: 10

Storage class (TRGS 510): 10 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**

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 : Υ 17.10.2017 Version : 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 Limit value type (country of origin) : TRGS 900 ( D ) Limit value :  $10 \text{ ppm} / 67 \text{ mg/m}^3$ Peak limitation : 1,5(I) Remark : Y 17.10.2017 Version .

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Limit value	type (country of origin	)) · STEL ( EC )	
Limit valu	e ·	15  ppm / 101 2 mg/m <sup>3</sup>	
Version :		07.02.2006	
Limit value	type (country of origin	$1 \times 10^{-1}$	
Limit valu		$10 \text{ npm} / 675 \text{ mg/m}^3$	
Version :	c.	13 ppm / 37,5 mg/m	
3-IOO-2-PP		MATE : CAS No. : 55406-53-6	
Limit value	type (country of origin	(-) + TPCS 000 ( D )	
Linit value		$0.005 \text{ ppm} / 0.058 \text{ mg/m}^3$	
Linit valu Doak limit	c.		
Pedk IIIIII Pomark I	auon.	2(1) Ch V	
Keilidik . Vorsion :		311, 1 17 10 2017	
DUEL (D)		1/.10.201/	
DNEL/DM	EL and PNEC V	alues	
DNEL/DME	L		
Limit value t	type :	DNEL worker (systemic) ( BORIC ACID ; CAS No. : 10043-35-3 )	
Exposure r	oute :	Dermal	
Exposure f	requency :	Long-term (repeated)	
Limit value	2:	392 mg/kg bw/d	
Limit value t	type :	DNEL worker (systemic) (BORIC ACID ; CAS No. : 10043-35-3)	
Exposure r	oute :	Inhalation	
Exposure f	requency :	Long-term (repeated)	
Limit value	2:	8,8 mg/m <sup>3</sup>	
Limit value t	type :	DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No.	: 112-34-5 )
Exposure r	oute :	Dermal	
Exposure f	requency :	Long-term (repeated)	
Limit value	2:	20 mg/kg	
Limit value t	type :	DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No.	: 112-34-5 )
Exposure r	oute :	Inhalation	
Exposure f	requency :	Long-term (repeated)	
Limit value	2:	67,5 mg/m <sup>3</sup>	
Remark The DNEL be safe ex week, as a Level (DN guidance v PNEC	may differ from an cosure levels for a to a time weighted aver EL) is an estimated s within the European	Occupational Exposure Limit (OEL) for the same chemical. OELs are ypical worker in an occupational setting for an 8-hour work shift, 4 age (TWA) or a 15 minute short-term exposure limit (STEL). The D afe level of exposure that is derived from toxicity data in accord wi REACH regulation.	e considered to 0 hour work Derived No Effect ith specific
l imit value t	type '	PNEC (Aquatic freshwater) ( BORIC ACID · CAS No. · 10043-35-3 )	
Limit value		1,35 mg/l	
Limit value t	tvne:	PNEC (Aquatic, marine water) ( BORIC ACID : CAS No. : 10043-35-3	)
Limit value	2:	1.35 mg/l	,
Limit value t	tvne:	PNEC (Sediment, freshwater) ( BORIC ACID : CAS No. : 10043-35-3	)
Limit value	· · · ·	1.8 mg/kg	/
Limit value t	type:	PNEC (Sediment, marine water) (BORIC ACID : CAS No. : 10043-35-	-3)
Limit value	2:	1,8 mg/kg	,
Limit value t	type:	PNEC (Sewage treatment plant) (BORIC ACID ; CAS No. : 10043-35-	-3)
Limit value	2:	1,75 mg/l	-

1 mg/l

0,1 mg/l

)

PNEC (Aquatic, freshwater) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )

PNEC (Aquatic, marine water) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5



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Limit value type :	PNEC (Sediment, freshwater) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5
Limit value :	) 4 ma/ka
Limit value type I	DNEC (Codiment marine water) ( 2 (2 DUTOVVETHOVV)ETHANOL : CAS No. : 112
Limit value type .	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 :

# 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

If contact is likely : 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. 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 productimpregnated 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**



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# 9.1 Information on basic physical and chemical properties Appearance : liquid

		•					
(	Colour :	yellow					
(	Ddour :	characteristic	2				
S	Safety relevan	t basis dat	ta				
	pH : Melting point/melt	ing range :	( 20 °C / 5 Wt % )		9,1 No data available		DIN 51369
	Initial boiling point range :	and boiling	( 1013 hPa )		not determined		
	Flash point :				> 100 °C (contains water)		DIN EN ISO 2592
	Lower explosion lin	nit :			No data available		
	Upper explosion lin	nit :			No data available		
	Vapour pressure :		( 20 °C )		No data available		
	Density :		(15 ℃)	approx.	0,993	g/cm <sup>3</sup>	DIN EN ISO 12185
	Water solubility :		( 20 °C )		miscible		
	log P O/W :				not applicable		
	<b>Cinematic viscosity</b>	:	( 20 °C )	approx.	105	mm²/s	DIN EN ISO 3104
	Ignition temperatu	re :			No data available		
	Decomposition tem	perature :			not determined		
	Odour threshold :				No data available		
	Relative vapour de	nsity :	( 20 °C )		No data available		
	Evaporation rate :				No data available		
	Vapourisation rate	:			No data available		
	Maximum VOC cont (Switzerland) :	tent			4,2	Wt %	
	Oxidising liquids :		Not oxidising.				
	Explosive propertie	s:	Not explosive accord	ding to EU A.14	4.		

# 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 known hazardous reactions. **10.4 Conditions to avoid**
- No information available.
- **10.5 Incompatible materials** Oxidising agent, strong.
- **10.6 Hazardous decomposition products** No known hazardous decomposition products.
- **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects



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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

Primary irritation to the skin Not an irritant.

Irritation to eyes Not an irritant.

# Sensitisation

Contains components in low concentrations (< 1%) that present a skin-sensitizing potential. Based on available data, the classification criteria are not met.

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

#### Carcinogenicity

no known significant effects or critical hazards.

#### Germ cell mutagenicity

no known significant effects or critical hazards.

#### **Reproductive toxicity**

no known significant effects or critical hazards.

## 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

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

1

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**

Harmful to aquatic life with long lasting effects.

#### Acute (short-term) fish toxicity

Parameter :	LC50 ( 2-butyloctan-1-ol ; CAS No. : 3913-02-8 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	> 0,1 - 1 mg/l
Exposure time :	96 h
Parameter :	LC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	1,5 mg/l
Exposure time :	96 h
Acute (short-term) dap	hnia toxicity
Parameter :	EC50 ( 2-butyloctan-1-ol ; CAS No. : 3913-02-8 )
Species :	Daphnia magna (Big water flea)
Effective dose :	> 0,1 - 1 mg/l
Exposure time :	48 h



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Parameter .	EC30(1,2-DEINZISOT FILAZOL-3(2H)-OINE, CAS NO 2034-33-3)
Species :	Daphnia magna (Big water flea)
Effective dose :	1,5 mg/l
Exposure time :	48 h
Acute (short-term) algae	toxicity
Parameter :	ErC50 (2-butyloctan-1-ol; CAS No.: 3913-02-8)
Species :	Pseudokirchneriella subcapitata
Effective dose :	> 1 - 10 mg/l
Exposure time :	72 h
Parameter :	EC50 ( 1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5 )
Species :	Pseudokirchneriella subcapitata
Effective dose :	0,055 mg/l
Exposure time :	96 h

### 12.2 Persistence and degradability

Moderately/partially 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.

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# **SECTION 14: Transport information**

#### 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**

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

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.

# 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

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

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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

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

# 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.).

# <sup>16.4</sup> 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.
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.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes 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.

# 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 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.