

# Safety Data Sheet

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



**Trade name :** eni aquamet Evolution 46, Art.-no. 0783  
**Revision date :** 01.04.2015  
**Print date :** 28.04.2015

**Version (Revision) :** 3.0.0 (1.0.0)

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

#### 1.1 Product identifier

eni aquamet Evolution 46

#### 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 :** (+49) 931-90098-0

**Telefax :** (+49) 931-98442

**Information contact :** Technical Department, Tel. (+49) 931 900 98-142

**email:** [technik.wuerzburg@agip.de](mailto:technik.wuerzburg@agip.de), [www.enischmiertechnik-datenblaetter.de](http://www.enischmiertechnik-datenblaetter.de)

#### 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]

None

#### 2.2 Label elements

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

##### Special rules for supplemental label elements for certain mixtures

EUH208

Contains N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamin. May produce an allergic reaction.

#### 2.3 Other hazards

None

### SECTION 3: Composition / information on ingredients

#### 3.2 Mixtures

##### Description

Mixture of substances listed below with nonhazardous additions.

##### Hazardous ingredients

N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamin ; EC No. : 279-503-4; CAS No. : 80584-90-3

Weight fraction : 0,1 - 0,5 %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

##### Additional information

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

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. When in doubt or if symptoms are observed, get medical advice.

##### 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. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Rinse mouth thoroughly with water. Where appropriate artificial ventilation. Call a physician immediately. Do not induce vomiting.

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

Protect your self against exposure to chemicals or blood-borne diseases by wearing gloves and eye protection. After providing first aid wash your exposed skin with soap and water.

#### 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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

##### Suitable extinguishing media

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

##### 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

Use water spray jet to protect personnel and to cool endangered containers. Do not inhale explosion and combustion gases. 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. Ventilate affected area. Remove all sources of ignition. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/aerosols. Special danger of slipping by leaking/spilling product.

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### 6.2 Environmental precautions

Cover drains. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.  
In case 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. Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment.  
See Section 12 for environmental precautions.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protection equipment (see chapter 8). Use only in well-ventilated areas. Open and handle container with care. Put lids on containers immediately after use. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

#### Protective measures

##### Measures to prevent fire

Usual measures for fire prevention.

##### Environmental precautions

Do not allow to enter into surface water or drains.

#### Advices on general occupational hygiene

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

### 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.

#### Hints on joint storage

Keep away from: Oxidising 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

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values

metal working coolant

Limit value type (country of origin) : AGW ( D )

Parameter : vapour + aerosol

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

Version :

#### 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

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. Tested protective gloves must be worn: DIN EN 374

###### 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):

Material: 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. Check leak tightness/impermeability prior to use.

**Additional hand protection measures :** Use protective skin cream before handling the product. Thorough skin-cleansing after handling the product.

###### Body protection

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

###### Other protection measures

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

##### Respiratory protection

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values aerosol or mist formation.

###### Suitable respiratory protection apparatus

Combination filtering device (EN 14387)

##### General health and safety measures

When using do not eat, drink, smoke. Wash hands before breaks and after work. Wash contaminated clothing prior to

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re-use. Do not put any product-impregnated cleaning rags into your trouser pockets. 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>	( 5 % / 20 °C )		7,2		DIN 51369
<b>Melting point/melting range :</b>			No data available		
<b>Boiling temperature :</b>	( 1013 hPa )	>	100	°C	
<b>Flash point :</b>	( 1013 hPa )	>	170	°C	DIN EN ISO 2592
<b>Flammability (Solid, Gas):</b>			not applicable		
<b>Lower explosion limit :</b>			No data available		
<b>Upper explosion limit :</b>			not applicable		
<b>Vapour Density (Air = 1):</b>			no data available		
<b>Vapour Pressure :</b>	( 20 °C )		no data available		
<b>Evaporation Rate :</b>			no data available		
<b>Density :</b>	( 15 °C )		0,93	g/cm <sup>3</sup>	DIN EN ISO 12185
<b>Water solubility :</b>	( 20 °C )		miscible		
<b>Partition Coefficient (n-octanol/water):</b>	( log Pow )		no data available		
<b>Viscosity :</b>	( 40 °C )		46	mm <sup>2</sup> /s	DIN EN ISO 3104
<b>Ignition temperature :</b>		>	240	°C	
<b>Decomposition temperature :</b>			No data available		
<b>Odour threshold :</b>			No data available		
<b>Oxidizing Properties:</b>			not oxidising		
<b>Explosive Properties:</b>			not explosive		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid  
Reaction with oxidizing agents possible.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Oxidising agent, strong.  
Acid

### 10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.

## SECTION 11: Toxicological information

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### 11.1 Information on toxicological effects

Toxicological data are not available. Data apply to the main component.

#### Acute effects

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

#### Irritant and corrosive effects

Not an irritant.

#### Sensitisation

not sensitising. Contains components in low concentrations (< 1%) that present a skin-sensitizing potential.

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

##### Carcinogenicity

no known significant effects or critical hazards.

##### Germ cell mutagenicity/Genotoxicity

no known significant effects or critical hazards.

##### Reproductive toxicity

no known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

##### STOT SE 1 and 2

Not expected to cause organ damage from a single exposure.

#### Specific target organ toxicity (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 chapter 9.

### 11.3 Other adverse effects

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

## 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 chapter 3).

#### Aquatic toxicity

Harmless to aquatic organisms up to the tested concentration

### 12.2 Persistence and degradability

Moderately/partially biodegradable.

#### Abiotic degradation

##### Physicochemical elimination

Poorly eliminated from water.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The substance does not fulfill the screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

### 12.6 Other adverse effects

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No information available.

### 12.7 Further ecological 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 10\*

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 name

Synthetic machining oils.

##### Waste treatment options

##### Appropriate disposal / Product

Recycle according to official regulations. Consult the appropriate local waste disposal expert about waste disposal.

##### 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

Containers, even those that have been emptied, can contain product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous goods in sense of this transport regulation.

### 14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

### 14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

### 14.4 Packing group

No dangerous goods in sense of this transport regulation.

### 14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

### 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

#### National regulations

##### Water hazard class (WGK)

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Class : 1 (Slightly hazardous to water) Classification according to VwVWS

### 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. Special rules for supplemental label elements for certain mixtures · 02. Labelling (67/548/EEC or 1999/45/EC) · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class

### 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

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 of Classification and Labelling of Chemicals

CLP: Regulation for Classification, Labelling and Packaging

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

### 16.5 Training advice

Provide adequate information, instruction and training for operators.

### 16.6 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.