

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

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 LCZ

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

Relevant identified uses

Metal working fluid for industrial use

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

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

email: technik.wuerzburg@agip.de, www.enischmiertechnik-datenblaetter.de

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]

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

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

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



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

a,a',a''-trimethyl-1,3,5-triazine-1,3,5-(2H,4H,6H)-triethanol ; CAS No. : 25254-50-6

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

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
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Version (Revision) : 3.0.0 (1.0.0)

P272 Contaminated work clothing should not be allowed out of the workplace.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

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

a,a',a''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol ; EC No. : 246-764-0; CAS No. : 25254-50-6

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319

2-AMINOETHANOL ; REACH registration No. : 01-2119486455-28-0000 ; EC No. : 205-483-3; CAS No. : 141-43-5

Weight fraction : 1 - 3 %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 STOT SE 3 ; H335

Alcohols, C12-14, ethoxylated ; REACH registration No. : 01-2119487984-16-0003 ; EC No. : 500-213-3; CAS No. : 68439-50-9

Weight fraction : 1 - 3 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400

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

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

Weight fraction : < 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

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation

Remove victim out of the danger area. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact

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

After eye contact

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

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. When in doubt or if symptoms are observed, get medical advice.

Self-protection of the first aider

Protect your self against exposure to chemicals or blood-borne diseases by wearing gloves and eye protection. After

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

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

Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray jet, 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: Sulphur dioxide (SO₂), Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), 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 product from area of fire. Use water spray jet to protect personnel and to cool endangered containers. 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. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/aerosols. Special danger of slipping by leaking/spilling product.

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 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). Clear contaminated areas thoroughly. Ventilate affected area.

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.

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

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

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. 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.

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 : Heat, UV-radiation/sunlight, Frost,

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-AMINOETHANOL ; CAS No. : 141-43-5

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

Limit value : 2 ppm / 5,1 mg/m³

Peak limitation : 2(I)

Remark : H, Y, Sh

Version : 01.09.2012

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

Limit value : 3 ppm / 7,6 mg/m³

Remark : H

Version : 07.02.2006

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

Limit value : 1 ppm / 2,5 mg/m³

Remark : H

Version : 06.02.2008

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

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

Limit value : 10 ppm / 67 mg/m³

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

Peak limitation : 1,5(I)
Remark : Y
Version : 01.09.2012
Limit value type (country of origin) : STEL (EC)
Limit value : 15 ppm / 101,2 mg/m³
Version : 07.02.2006
Limit value type (country of origin) : TWA (EC)
Limit value : 10 ppm / 67,5 mg/m³
Version : 07.02.2006

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (Industrial) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Inhalation
Exposure frequency : chronic / systemic effects
Limit value : 67,5 mg/m³
Limit value type : DNEL/DMEL (Industrial) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Dermal
Exposure frequency : chronic / systemic effects
Limit value : 20 mg/kg
Limit value type : DNEL/DMEL (Industrial) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Dermal
Exposure frequency : chronic / systemic effects
Limit value : 1 mg/kg
Limit value type : DNEL/DMEL (Industrial) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Inhalation
Exposure frequency : chronic / systemic effects
Limit value : 3,3 mg/m³

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 : Fresh water : (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value : 1 mg/l
Limit value type : Sea water : (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value : 0,1 mg/l
Limit value type : Sediment (fresh water) : (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value : 4 mg/kg
Limit value type : Sediment (sea water) : (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value : 0,4 mg/kg
Limit value type : Sewage plant : (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value : 200 mg/l
Limit value type : Fresh water : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)
Limit value : 0,0437 mg/l
Limit value type : Sea water : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)
Limit value : 0,0437 mg/l
Limit value type : Water (sporadic release) : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)
Limit value : 0,004 mg/l
Limit value type : Sediment (fresh water) : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)
Limit value : 31 mg/kg
Limit value type : Sediment (sea water) : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

Limit value :	31 mg/kg
Limit value type :	Sewage plant : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)
Limit value :	10 mg/l
Limit value type :	Soil : (Alcohols, C12-14, ethoxylated ; CAS No. : 68439-50-9)
Limit value :	1 mg/kg
Limit value type :	Fresh water : (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,085 mg/l
Limit value type :	Sea water : (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,0085 mg/l
Limit value type :	Sediment (fresh water) : (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,425 mg/l
Limit value type :	Sediment (sea water) : (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,0425 mg/l
Limit value type :	Sewage plant : (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	100 mg/l
Limit value type :	Soil : (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,035 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

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 :

full contact: glove material: nitrile-rubber or neoprene rubber gloves (0,7 mm), break through time: > 480 min.
incidental contact/splash contact: glove material: nitrile-rubber or neoprene rubber gloves (0,4 mm), break through time: > 30 min.

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. Wear either a chemical protective suit or apron when potential for contact with material exists.

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 insufficient ventilation aerosol or mist formation.

General health and safety measures

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

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

Appearance : liquid
Colour : orange
Odour : like Amines

Safety relevant basis data

pH value :	(20 °C / 5 Wt %)		9,4	DIN 51369
Melting point/melting range :			No data available	
Boiling temperature :	(1013 hPa)	>	100 °C	
Flash point :		>	140 °C	DIN EN ISO 2592
Flammability (Solid, Gas):			not applicable	
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(20 °C)		No data available	
Vapour Density (Air = 1):			no data available	
Evaporation Rate :			no data available	
Density :	(20 °C)		0,995 g/cm ³	DIN EN ISO 12185
Water solubility :	(20 °C)		miscible	
Partition Coefficient (n-octanol/water):	(log Pow)		no data available	
Viscosity :	(20 °C)	ca.	150 mm ² /s	DIN EN ISO 3104
Ignition temperature :		>	240 °C	
Decomposition temperature :			No data available	
Odour threshold :			No data available	
Oxidizing Properties:			not oxidising	
Explosive Properties:			not explosive	
Maximum VOC content (Switzerland) :			0 Wt %	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected handling the product according to its intended use.

10.2 Chemical stability

Stable at intended use.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

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

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

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

Irritating to skin.

Irritation to eyes

Irritating to eyes.

Sensitisation

May cause sensitization by skin contact.

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.

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

The single components are biodegradable.

12.3 Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

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

No information available.

12.7 Further ecological information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

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*

Waste name

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

Waste treatment options

Appropriate disposal / Product

Consult the appropriate local waste disposal expert about waste disposal. 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.

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

EU legislation

Other regulations (EU)

Restrictions of occupation

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) : 10 - 15 %

Water hazard class (WGK)

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

Additional information

Berufsgenossenschaftliche Regeln (BGR)

The product corresponds with TRGS 611.

15.2 Chemical Safety Assessment

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

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. Labelling (67/548/EEC or 1999/45/EC) · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 08. Occupational exposure limit values · 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
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)

H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H302+H332	Harmful if swallowed or if inhaled.
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.
H335	May cause respiratory irritation.
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.

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

Safety Data Sheet

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



Trade name : eni aquamet LCZ, Art.-No. 0851
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.0)

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.
