eni Aquamet 500 FG ECO

Safety Data Sheet
According to Regulation (EC) No. 830/2015

Revision date: **13/10/2015** **Version: 1.0**

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	eni Aquamet 500 FG ECO
Product code	:	7086
Formula	:	1510-2015
Product group	:	Trade product

This product is identified as a MIXTURE. CAS / EC / Index numbers are not applicable.
REACH registration is not applicable.

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

1.2.1. Relevant identified uses

Main use category	:	Industrial use,Professional use
Use of the substance/mixture	:	Metalworking fluid ---- Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category	:	Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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P.le E. Mattei 1 - 00144 ROMA Italy
Tel (+39) 06 59821
www.eni.com

Contact:
Refining & Marketing and Chemicals
Via Laurentina 449 00142 ROMA Italy
Tel (+39) 06 59881 Fax (+39) 06 59885700

Competent person responsible for the Safety Data Sheet (Reg. EC nr. 1907/2006): SDSInfo@eni.com

1.4. Emergency telephone number

Emergency number	:	CNIT +39 0382 24444 (24h) (IT + EN) Poison centre (UK): National Poisons Information Service Edinburgh (24h) (+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]

Eye Irrit. 2 H319

Aquatic Chronic 3 H412

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07

CLP Signal word : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective clothing, protective gloves, eye protection, face protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to according to national or local regulations

Child-resistant fastening : No

Tactile warning : No

Other:

General advice : (Not applicable - Classified as dangerous according to (EC) No 1272/2008)

2.3. Other hazards (not relevant for classification)

Physical/chemical : This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.,Note: heating the product generates a mixture of steam and other products, which is not easily ignited.

Health : Any material in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment.,Do not wait for symptoms to develop.

Environment : None.

Contaminants (air contaminants or other substances) : None.

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Composition/information on ingredients : Water-based mixture of mineral base oil (severely refined), emulsifying agents, additives.

All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)

Hazardous ingredients and/or with relevant occupational exposure limits : See table

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), hydrotreated light naphthenic (Component)	(CAS No) 64742-53-6 (EC no) 265-156-6 (EC index no) 649-466-00-2 (REACH-no) 01-2119480375-34	5 - 24,99	Asp. Tox. 1, H304
2,2'-(Cyclohexyl imino) bisethanol (Additive)	(CAS No) 4500-29-2 (EC no) 224-809-5 (EC index no) N/A (REACH-no) 01-2119962183-38	1 - 4,99	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 STOT RE 2, H373
Triethanolamine (Additive) substance with national workplace exposure limit(s) (AT, BE, CZ, DE, DK, ES, FI, IE, IT, PT, SE)	(CAS No) 102-71-6 (EC no) 203-049-8 (EC index no) N/A (REACH-no) 01-2119486482-31	1 - 4,99	Not classified
Alcohols, C16-18 and C18-unsatd., ethoxylated (Additive)	(CAS No) 68920-66-1 (EC no) 500-236-9 (EC index no) N/A (REACH-no) 01-2119489407-26	1 - 4,99	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Sulfonic acids, petroleum, sodium salts (Additive)	(CAS No) 68608-26-4 (EC no) 271-781-5 (EC index no) N/A (REACH-no) 01-2119527859-22	1 - 4,99	Eye Irrit. 2, H319
2-aminoethanol (Additive)	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8 (REACH-no) 01-2119486455-28	1 - 2,99	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 STOT SE 3, H336 Aquatic Chronic 3, H412
2-phenoxyethanol (Additive)	(CAS No) 122-99-6 (EC no) 204-589-7 (EC index no) N/D (REACH-no) 01-2119488943-21	1 - 2,99	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
2-butylaminoethanol (Additive)	(CAS No) 111-75-1 (EC no) 203-904-5 (EC index no) N/D (REACH-no) 01-2119987315-28	1 - 2,99	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-aminoethanol (Additive)	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8 (REACH-no) 01-2119486455-28	(C >= 5) STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In case of spontaneous vomiting, transport the victim to a hospital, to verify the possibility that the product has been aspired into the lungs.

First-aid measures after inhalation : In case of disturbances owing to inhalation of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention. If casualty is unconscious and not breathing: ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain medical advice. If the casualty is breathing: Place in the recovery position. Administer oxygen if necessary.

First-aid measures after skin contact : Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice. When using high-pressure equipment, injection of product can occur. Send the casualty immediately to hospital. Do not wait for symptoms to develop.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do so. Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

First-aid measures after ingestion : Do not induce vomiting to avoid aspiration into the lungs. Keep at rest. Rinse mouth with water (only if the person is conscious). If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Call immediately for medical assistance or transport the victim to an hospital. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs.

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

Symptoms / injuries (general indications) : Irritating to eyes.

Symptoms/injuries after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

Symptoms/injuries after skin contact : Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances.

Symptoms/injuries upon intravenous administration : No information available.

Chronic symptoms : None to be reported, according to the present classification criteria.

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

None under normal conditions. If necessary, drain stomach by gastric lavage ONLY under qualified medical supervision.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Small-size fires: carbon dioxide, dry chemicals, alcohol-resistant foam, sand or earth. Large fires: alcohol-resistant foam or water fog (mist). These means should be used by trained personnel only. Use extinguishing media and procedures appropriate for the surrounding materials. Other extinguishing gases (according to regulations).

Unsuitable extinguishing media : Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Product with a very low risk of fire. It can create flammable mixtures or burn only when the water content has evaporated.

Explosion hazard : In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m³ of air.

Combustion products : Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NOx, H2S and SOx (harmful/toxic gases).,Oxygenated compounds (aldehydes, etc.)

5.3. Advice for firefighters

Firefighting instructions : Shut off source of product, if possible. If possible, move containers and drums away from danger area. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.

Special protective equipment for firefighters	: Personal protection equipment for firefighters (see also sect. 8). Self-contained breathing apparatus.
Other information	: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid accidental sprays on hot surfaces or electrical contacts. Avoid direct contact with released material. Keep upwind.

6.1.1. For non-emergency personnel

Protective equipment : See Section 8.

Emergency procedures : Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

6.1.2. For emergency responders

Protective equipment : Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Antistatic non-skid safety shoes or boots, chemical resistant. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: a half or full-face respirator with filter(s) for organic vapours (AX), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Emergency procedures : Notify local authorities according to relevant regulations.

6.2. Environmental precautions

Do not let the product accumulate in confined or underground spaces. Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

For containment : Soil. If necessary dike the product with dry earth, sand or similar non-combustible materials. When inside buildings or confined spaces, ensure adequate ventilation. Absorb spilled product with suitable non-combustible materials. Collect free liquid and waste materials in suitable waterproof and oil resistant containers. Clean the contaminated area. Dispose of in accordance with relevant local regulations. Water: This product is soluble in water, and usually no special measures are feasible. If possible, collect spilled product with mechanical means. Notify official Authorities when required. If it is necessary to store any contaminated materials for safe disposal, only suitable containers (airtight, labelled, sealed, waterproof, earthed and bonded) should be used. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.

Other information : Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

6.4. Reference to other sections

See Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. During transfer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build-up of electric charges. Keep away from heat/sparks/open flames/hot surfaces. Do not use electrical equipment (mobile phones etc.) not approved for use, according to the risk rating of the area. Do not use compressed air for filling, discharging, or handling operations. Use and store only outdoors or in a well-ventilated area. Use adequate personal protective equipment as needed. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability. If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned.

Handling temperature : 5 - 40 °C

Hygiene measures : Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Drain and clean regularly the tanks, as risks increase with degradation and contamination of the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.

Incompatible products : Keep away from: strong acids and strong oxidants.

Storage temperature : 5 - 40 °C Excessive heating above the maximum recommended handling and storage temperature may cause degradation of the product and evolution of irritant vapours and fumes

Storage area : Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

Packages and containers: : If the product is supplied in containers: Keep only in the original container or in a suitable container for this kind of product. Store in a well-ventilated place. Keep containers tightly closed and properly labelled. Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.

Packaging materials : For containers, or container linings use materials specifically approved for use with this product. Recommended materials for containers, or container linings use mild steel, stainless steel. Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer. Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned and declared safe.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-aminoethanol (141-43-5)		
Austria	MAK (ppm)	1 ppm
Austria	MAK Short time value (ppm)	3 ppm
Belgium	Limit value (ppm)	1 ppm
Belgium	Short time value (ppm)	3 ppm
Denmark	Grænseværdi (langvarig) (ppm)	1 ppm
Denmark	Grænseværdi (kortvarig) (ppm)	2 ppm
France	VME (ppm)	3 ppm

2-aminoethanol (141-43-5)		
France	VLE (ppm)	1 ppm
Germany	TRGS 900 Occupational exposure limit value (ppm)	2 ppm
Germany	TRGS 900 Limitation of exposure peaks (ppm)	4 ppm
Hungary	CK-érték	2,5 mg/m³
Hungary	MK-érték	7,6 mg/m³
Italy	OEL TWA (mg/m³)	2,5 mg/m³
Italy	OEL TWA (ppm)	1 ppm
Italy	OEL STEL (mg/m³)	7,6 mg/m³
Italy	OEL STEL (ppm)	3 ppm
The Netherlands	MAC TGG 15 min (mg/m³)	2,5 mg/m³
The Netherlands	MAC C (mg/m³)	7,6 mg/m³
Poland	NDSCh (mg/m³)	2,5 mg/m³
Poland	NDSP (mg/m³)	7,5 mg/m³
Spain	VLA-ED (ppm)	1 ppm
Spain	VLA-EC (ppm)	3 ppm
Spain	Notes	Skin
Sweden	Nivågränsvärde (NVG) (ppm)	3 ppm
Sweden	Kortidsvärde (KTV) (ppm)	6 ppm
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (ppm)	3 ppm
Canada (Quebec)	VECD (ppm)	6 ppm
Canada (Quebec)	VEMP (ppm)	3 ppm
USA - ACGIH	ACGIH TLV®-TWA (ppm)	3 ppm
USA - ACGIH	ACGIH TLV®-STEL (ppm)	6 ppm
USA - NIOSH	NIOSH REL (TWA) (ppm)	3 ppm
USA - NIOSH	NIOSH REL (STEL) (ppm)	6 ppm

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
Austria	MAK (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Belgium	Limit value (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (langvarig) (mg/m³)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (kortvarig) (mg/m³)	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Hungary	AK-érték	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
The Netherlands	MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-ED (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Nivågränsvärde (NVG) (mg/m3)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Kortidsvärde (KTV) (mg/m3)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL TWA (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL STEL (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Canada (Quebec)	VECD (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
Canada (Quebec)	VEMP (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-TWA (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-STEL (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (STEL) (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

Triethanolamine (102-71-6)		
Austria	MAK (ppm)	0,8 ppm
Austria	MAK Short time value (ppm)	1,6 ppm
Belgium	Limit value (mg/m³)	5 mg/m³
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	5 mg/m³
Denmark	Grænseværdi (langvarig) (mg/m³)	0,5 mg/m³
Denmark	Grænseværdi (kortvarig) (mg/m³)	1 mg/m³
Estonia	OEL TWA (mg/m³)	5 mg/m³
Estonia	OEL STEL (mg/m³)	10 mg/m³
Finland	HTP-arvo (8h) (ppm)	5 ppm
Germany	TRGS 900 Occupational exposure limit value (ppm)	5 ppm
Germany	TRGS 900 Limitation of exposure peaks (ppm)	20 ppm
Ireland	OEL (8 hours ref) (mg/m³)	5 mg/m³
Slovenia	OEL TWA (mg/m³)	5 mg/m³
Spain	VLA-ED (mg/m³)	5 mg/m³
Sweden	Nivågränsvärde (NVG) (mg/m3)	5 mg/m³
Sweden	Kortidsvärde (KTV) (mg/m3)	10 mg/m³
Switzerland	VME (mg/m³)	5 mg/m³
Switzerland	VLE (mg/m³)	20 mg/m³
Canada (Quebec)	VECD (mg/m³)	5 mg/m³
USA - ACGIH	ACGIH TLV®-TWA (mg/m³)	5 mg/m³

2-phenoxyethanol (122-99-6)		
Switzerland	VME (mg/m³)	110 mg/m³
Switzerland	VME (ppm)	20 ppm
Switzerland	VLE (mg/m³)	220 mg/m³
Switzerland	VLE (ppm)	40 ppm

2-aminoethanol (141-43-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	= 1 mg/kg bodyweight/day
Long-term - local effects, inhalation	= 3,3 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	= 0,085 mg/l
PNEC aqua (marine water)	= 0,0085 mg/l
PNEC aqua (intermittent, freshwater)	= 0,025 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	= 0,425 mg/kg dwt
PNEC sediment (marine water)	= 0,0425 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	= 100 mg/l

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	= 5,4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	= 1,2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)

2,2'-(Cyclohexyl imino) bisethanol (4500-29-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,2 mg/m³
Long-term - local effects, inhalation	1 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,81 mg/l
PNEC aqua (marine water)	0,081 mg/l
PNEC aqua (intermittent, freshwater)	0,11 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3,8 mg/kg dwt
PNEC sediment (marine water)	0,38 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,28 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	50 mg/l

Triethanolamine (102-71-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	= 6,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	= 5 mg/m³ (DNEL)
Long-term - local effects, inhalation	= 5 mg/m³ (DNEL)
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	= 13 mg/kg bodyweight/day (DNEL)
Long-term - systemic effects, inhalation	= 1,25 mg/m³ (DNEL)
Long-term - systemic effects, dermal	= 3,1 mg/kg bodyweight/day (DNEL)
Long-term - local effects, inhalation	= 1,25 mg/m³ (DNEL)
PNEC (Water)	
PNEC aqua (freshwater)	= 0,32 mg/l
PNEC aqua (marine water)	= 0,032 mg/l
PNEC aqua (intermittent, freshwater)	= 5,12 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	= 1,7 mg/kg dwt
PNEC sediment (marine water)	0,17 mg/kg dwt
PNEC (Soil)	
PNEC soil	= 0,151 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	= 10 mg/l

2-butylaminoethanol (111-75-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3,92 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,22 mg/m³
Long-term - local effects, inhalation	1,14 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,03 mg/l
PNEC aqua (marine water)	0,003 mg/l
PNEC aqua (intermittent, freshwater)	0,3 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,029 mg/kg dwt
PNEC sediment (marine water)	0,003 mg/kg dwt

2-butylaminoethanol (111-75-1)	
PNEC (Soil)	
PNEC soil	0,008 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	35 mg/l

Alcohols, C16-18 and C18-unsatd., ethoxylated (68920-66-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2080 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	294 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,002 mg/l
PNEC aqua (marine water)	0,002 mg/l
PNEC aqua (intermittent, freshwater)	0,51 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	6,33 mg/kg dwt
PNEC sediment (marine water)	6,33 mg/kg dwt
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10000 mg/l

Sulfonic acids, petroleum, sodium salts (68608-26-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3,33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,66 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	723500000 mg/kg dwt
PNEC sediment (marine water)	723500000 mg/kg dwt
PNEC (Soil)	
PNEC soil	868700000 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

Monitoring methods : Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts.,Refer to relevant legislation and in any case to the good practice of industrial hygiene.

Note : 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. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). 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). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Minimize exposure to mists/vapours/aerosol. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability.

Personal protective equipment (for industrial or professional use) : Protective clothing. Gloves. Safety glasses. Face shield. Dust/aerosol mask. Safety shoes or boots.

Hand protection : When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.

Type	Material	Permeation	Thickness	Penetration	Standard
Short-term use (splash protection)	Neoprene rubber (HNBR), PVC (Polyvinyl chloride)	3 (> 60 Minutes)	N/A	N/D	EN 374
Prolonged use	Butyl rubber	6 (> 480 Minutes)	> 0.5 mm	N/D	EN 374

Eye protection : When there is a risk of contact with the eyes, use safety goggles or other means of protection (face shield). If necessary, refer to national standards or to the EN 166 standard.

Skin and body protection : Long-sleeved antistatic clothing, if necessary heat-resistant. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated.

Respiratory protection : Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145)

Thermal hazard protection : If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

Environmental exposure controls : Do not discharge the product into the environment. Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Onsite wastewater treatment required. Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Consumer exposure controls : Not applicable.

8.3. Hygiene measures

General protective and hygienic measures : Avoid contact with skin and eyes,Do not breathe vapours or mists.,Do not clean hands with dirty or oil-soaked rags.,Do not keep dirty rags in the overall pockets.,Do not drink, eat or smoke with dirty hands.,Wash hands with water and mild soap, do not use solvents or other irritant products which have a defatting effect on the skin.,Do not re-use clothes, if they are still contaminated.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid, bright & clear.
Molecular mass : Not applicable for mixtures
Colour : Amber.
Odour : Amine-like. Slight odour of petroleum.
Odour threshold : There are no data available on the preparation/mixture itself.
pH : No data available
pH solution : 8,5 - 11 % (5%, water)

Relative evaporation rate (butylacetate=1)	: Not determined
Melting point	: Pour point ≤ 0 (according to composition)
Freezing point	: No data available
Boiling point	: ≥ 100 °C (according to composition)
Flash point	: ≥ 101 °C This product contains a significant amount of water. When heated, it generates a mixture of steam and other substances. A value of Flash Point cannot be determined in a reliable way.
Critical temperature	: Not applicable for mixtures
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not available
Critical pressure	: Not applicable for mixtures
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 940 - 1040 kg/m³ (ASTM D 1298)
Solubility	: Water: Dispersible in water
Log Pow	: Not applicable for mixtures
Log Kow	: Not applicable for mixtures
Viscosity, kinematic	: ≥ 25 cSt (@ 40 °C)
Viscosity, dynamic	: No data available
Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Explosive limits	: ≥ 45 g/m³ (mineral oil mists)

9.2. Other information

VOC content	: = 3 % (EU, CH)

The above data (9.1 - 9.2) are typical values and do not constitute a specification.

SECTION 10: Stability and reactivity

10.1. Reactivity

This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.

10.2. Chemical stability

Stable product, according to its intrinsic properties (in normal conditions of storage and handling).

10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling). A mixture with nitrates or other strong oxidisers (e.g. chlorates, perchlorates, liquid oxygen) may create an explosive mass. Sensitivity to heat, friction or shock cannot be assessed in advance.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Keep away from: strong acids and strong oxidants.

10.5. Incompatible materials

Strong oxidants and strong acids.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified (Based on available data, the classification criteria are not met) (according to composition)

eni Aquamet 500 FG ECO	
LD50 oral rat	≥ 2000 mg/kg bodyweight (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
LD50 dermal rabbit	≥ 2000 mg/kg bodyweight (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
LC50 inhalation rat (mg/l)	≥ 5 mg/l/4h (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
ATE (vapours)	5,000 mg/l/4h
ATE (dust,mist)	5,000 mg/l/4h

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LD50 oral rat	> 5000 mg/kg (OECD 401)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (OECD 403)
Triethanolamine (102-71-6)	
LD50 oral rat	6400 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	≥ 2000 mg/kg bodyweight (OECD 402)
LC50 inhalation rat (mg/l)	> 1,8 mg/l/4h Saturation concentration
Sulfonic acids, petroleum, sodium salts (68608-26-4)	
LD50 oral rat	≥ 2000 mg/kg bodyweight
LD50 dermal rat	≥ 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	≥ 5 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met. (provided by the supplier))

This mixture (or another with a similar composition) has been tested in vitro by the supplier according to the OECD 431 guideline, in order to assess the capacity for corrosion/irritancy for skin (Regulation (CE) 1272/2008 - CLP).
According to the results (considering test outcomes, bridging principles and expert judgement), this product is NOT classified as corrosive/irritant for skin.

Serious eye damage/irritation : Causes serious eye irritation. ((provided by the supplier))

This mixture (or another with a similar composition) has been tested in vitro by the supplier according to the OECD 439 and STE (Short Term Exposure) guidelines, in order to assess the capacity for corrosion/irritancy for eyes(Regulation (CE) 1272/2008 - CLP).
According to the results (considering test outcomes, bridging principles and expert judgement), this product is classified as irritant for eyes (H319)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

(according to composition)
This product does not contain any significant amounts of substances classified as sensitizers (in any case < 0.1 % wt)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

(according to composition)
This product does not contain any significant amounts of substances classified as mutagenic by the EU (in any case < 0.1 % wt)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

(according to composition)
None of the components of this product are listed as carcinogen by NTP, IARC, OSHA, EU or others.
All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

(according to composition)
This product does not contain any significant amounts of substances classified as Toxic for Reproduction by the EU (in any case < 0.1 % wt)

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

(according to composition)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

(according to composition)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LOAEL (oral,rat,90 days)	= 125 mg/kg bodyweight/day (OECD TG 408)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)

eni Aquamet 500 FG ECO	
Viscosity, kinematic	≥ 25 mm²/s (@ 40 °C)

Potential Adverse human health effects and symptoms : Irritating to eyes. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.

Other information : None.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : According to the components, and by comparison with other products of the same type and composition, it is expected that this product has a toxicity for aquatic organisms between 10 and 100 mg/l, and must be regarded as Dangerous to the environment. An uncontrolled release to the environment may produce a contamination of different environmental compartments (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.

Ecology - air : This product has a low vapour pressure. A significant exposure may happen only if the product is used at high temperature, or in case of sprays and mists.

Ecology - water : Soluble in water

Ecology - water : Dispersible in water.

eni Aquamet 500 FG ECO	
LC50 fish 1	10 - 100 mg/l (Calculated data). This evaluation is based on the information provided by the suppliers.
EC50 Daphnia 1	10 - 100 mg/l (Calculated data). This evaluation is based on the information provided by the suppliers.
ErC50 (algae)	10 - 100 mg/l (Calculated data). This evaluation is based on the information provided by the suppliers.

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LC50 fish 1	> 100 mg/l (LL 50)
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)
Triethanolamine (102-71-6)	
LC50 fish 1	≥ 11800 mg/l (96h - APHA method - 1980)
EC50 other aquatic organisms 1	609,8 mg/l (48h - Ceriodaphnia dubia)
ErC50 (algae)	512 mg/l (72h - DIN 38412 part 9 - Scenedesmus subspicatus)

12.2. Persistence and degradability

eni Aquamet 500 FG ECO	
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Triethanolamine (102-71-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	ca 100 % (5d)

12.3. Bioaccumulative potential

eni Aquamet 500 FG ECO	
Log Pow	Not applicable for mixtures
Log Kow	Not applicable for mixtures

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

eni Aquamet 500 FG ECO	
This substance/mixture does not meet the PBT criteria of REACH, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.	
Results of PBT-vPvB assessment	The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)

Component	
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII. This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Triethanolamine (102-71-6)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

Other adverse effects : None.

Additional information : This product may have harmful effects on water treatment plants. Wastewater containing this product should be treated in treatment plants that are suited for the specific purpose.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector. Dispose of empty containers and wastes safely.

Sewage disposal recommendations : Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Dispose of in a safe manner in accordance with local/national regulations.

Waste disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 12 01 07* (mineral-based machining oils free of halogens (except emulsions and solutions)). 12 01 09* (machining emulsions and solutions free of halogens). This EWC code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the actual use of the product, alterations and contaminations.

Additional information : Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe. Dispose of empty, not cleaned containers safely, according to local regulations.

Ecology - waste materials : The product as it is does not contain halogenated substances.

EURAL code (EWC) : 12 01 07* - mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 09* - machining emulsions and solutions free of halogens

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

ADN
Transport hazard class(es) (ADN) : Not applicable

RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (UN) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : None.

14.6. Special precautions for user

Special transport precautions : None.

- Overland transport
Transport regulations (ADR) : Not subject

- Transport by sea
Transport regulations (IMDG) : Not subject
Limited quantities (IMDG) : Not applicable
MFAG-No : --

- Air transport
Transport regulations (IATA) : Not subject

- Inland waterway transport
Transport regulations (ADN) : Not subject

- Rail transport
Transport regulations (RID) : Not subject

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

IBC code : None.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	eni Aquamet 500 FG ECO - 2-aminoethanol - 2,2'-(Cyclohexyl imino) bisethanol - Distillates (petroleum), hydrotreated light naphthenic - 2-butylaminoethanol - 2-phenoxyethanol - Alcohols, C16-18 and C18-unsatd., ethoxylated - Sulfonic acids, petroleum, sodium salts

3.b. Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	eni Aquamet 500 FG ECO - 2-aminoethanol - 2,2'-(Cyclohexyl imino) bisethanol - Distillates (petroleum), hydrotreated light naphthenic - 2-butylaminoethanol - 2-phenoxyethanol - Alcohols, C16-18 and C18-unsatd., ethoxylated - Sulfonic acids, petroleum, sodium salts
3.c. Hazard class 4.1	eni Aquamet 500 FG ECO - 2-aminoethanol - 2-butylaminoethanol - Alcohols, C16-18 and C18-unsatd., ethoxylated

No ingredients are included in the REACH Candidate list (> 0,1 % m/m).

Contains no REACH Annex XIV substances.

Relevant EU Legislation : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens).
Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace)
Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work).
Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding)
Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances)
Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds)
Labelling according to directives 67/548/EEC and 1999/45/EC

VOC content : = 3 % (EU, CH)

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.
National laws on classification and labeling of dangerous substances/preparations (Adoption of Directive 67/548/CE and subsequent Adaptations to Technical Progress - ATP, and Directive 1999/45/CE).
National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).
Relevant national laws on prevention of water pollution.
Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).
National adoption of Directives 75/439/CEE - 87/101/CEE concerning disposal of used oils.

France

Maladies professionelles (F) : RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse

Germany

VwVwS Annex reference : Water hazard class (WGK) (D) 2, hazard to waters (Classification according to VwVwS, Annex 4)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

VbF class (D) : Not applicable.

Storage class (LGK) (D) : LGK 12 - Non-flammable liquids in non-flammable packages

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

The Netherlands

Waterbezwaarlijkheid	: 8 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Denmark

Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Pregnant/breastfeeding women working with the product must not be in direct contact with it

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out
2-aminoethanol 2,2'-(Cyclohexyl imino) bisethanol Distillates (petroleum), hydrotreated light naphthenic Triethanolamine 2-phenoxyethanol 2-butylaminoethanol Alcohols, C16-18 and C18-unsatd., ethoxylated Sulfonic acids, petroleum, sodium salts

SECTION 16: Other information

Indication of changes:
First issue.

Abbreviations and acronyms:

	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.
	N/A = Not applicable. N/D = Not available ACGIH = American Conference of Governmental Industrial Hygienists API = American Petroleum Institute CSR = Chemical Safety Report DNEL = Derived No Effect Level DMEL = Derived Minimum Effect Level EC50 = Effective Concentration, 50% EL50 = Effective Loading, 50 % EPA = Environmental Protection Agency IC50 = Inhibition Concentration, 50% LC50 = Lethal Concentration, 50% LD50 = Lethal Dose, 50% LL50 = Lethal Loading, 50% LOAEL = Low Observed Adverse Effects Level NOEL = No Observed Effects Level NOAEL = No Observed Adverse Effects Level OECD = Organization for Economic Cooperation and Development PNEC = Predicted No-Effect Concentration PBT = Persistent, Bioaccumulative, Toxic STOT = Single Target Organ Toxicity (STOT) RE = (Single Target Organ Toxicity) Repeated exposure (STOT) SE = (Single Target Organ Toxicity) Single exposure TLV®TWA = Threshold Limit Value® – Time-Weighted Average TLV®STEL = Threshold Limit Value® – Short Term Exposure Limit UVCB = Substance of Unknown or Variable composition, Complex reaction products or Biological materials vPvB = very Persistent, very Bioaccumulative WAF = Water Accommodated Fraction

Data sources	: This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
Training advice	: Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.

Other information	: Do not use the product for any purposes that have not been advised by the manufacturer. ----. In exceptional cases (i.e prolunged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. If this possibility is suspected, a specific assessment of inhalation risks from the presence of H2S in confined spaces must be made, to help determine prevention measures and controls (i.e. PPE) appropriate to local circumstances, and adequate emergency procedures. If there is any suspicion of inhalation of H2S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2	H319	Expert judgment provided by the supplier Calculation method - provided by the supplier
Aquatic Chronic 3	H412	Calculation method - provided by the supplier Expert judgment provided by the supplier

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product