



Eni Aquamet 260 EP

Safety Data Sheet

according to Regulation (EU) 2015/830
Revision date: 04/05/2021 Supersedes: 20/10/2016 Version: 8.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Eni Aquamet 260 EP
UFI	: UM5P-V09X-5002-QY6X
Product code	: 7648
Type of product	: Lubricants
Formula	: 0405-2021
Product group	: Trade product

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
Industrial/Professional use spec	: Non-dispersive use Used in closed systems
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

Supplier

ENI S.p.A.
P.le E. Mattei 1 - 00144 Rome Italy
Phone: (+39) 06 59821
www.eni.com

Contact:
Refining & Marketing

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]

Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Additional category, Effects on or via lactation	H362
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H-statements: see section 16	

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Adverse physicochemical, human health and environmental effects

Irritating to eyes. May cause harm to breast-fed children. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact. Toxic to aquatic life with long lasting effects. 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)



CLP Signal word

: Warning

Contains

: alkanes, C14-17, chloro; chlorinated paraffins, C14-17; 1,2-benzisothiazol-3(2H)-one; 2-methylisothiazol-3(2H)-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H362 - May cause harm to breast-fed children.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P260 - Do not breathe mist, spray, Vapours.
P263 - Avoid contact during pregnancy and while nursing.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, 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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs, get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P391 - Collect spillage.
P501 - Dispose of contents and container to according to national or local regulations.

2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification : Any substance, 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 a hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop.

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Notes

: Composition/ Information on ingredients:
Mixture of hydrocarbons
Solvents
Additives

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), solvent-refined light paraffinic (see note [*], see note [**])	(CAS-No.) 64741-89-5 (EC-No.) 265-091-3 (EC Index-No.) 649-455-00-2 (REACH-no) 01-2119487067-30	≥ 10 < 15	Asp. Tox. 1, H304
alkanes, C14-17, chloro; chlorinated paraffins, C14-17 Substance included in REACH Candidate List (Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17))	(CAS-No.) 85535-85-9 (EC-No.) 287-477-0 (EC Index-No.) 602-095-00-X (REACH-no) 01-2119519269-33	≥ 10 < 15	Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sulfonic acids, petroleum, sodium salts	(CAS-No.) 68608-26-4 (EC-No.) 271-781-5 (EC Index-No.) N/A (REACH-no) 01-2119527859-22	≥ 5 < 10	Eye Irrit. 2, H319
Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics	(CAS-No.) (64742-48-9) (EC-No.) 918-317-6 (EC Index-No.) N/A (REACH-no) 01-2119474196-32	≥ 1 < 5	Asp. Tox. 1, H304
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8 (REACH-no) 01-2119475104-44	≥ 1 < 5	Eye Irrit. 2, H319
2-phenoxyethanol	(CAS-No.) 122-99-6 (EC-No.) 204-589-7 (EC Index-No.) 603-098-00-9 (REACH-no) 01-2119488943-21	≥ 1 < 5	Acute Tox. 4 (Oral), H302 (ATE=1840 mg/kg bodyweight) Eye Irrit. 2, H319
Alcohols, C14-18, ethoxylated propoxylated	(CAS-No.) 68002-96-0 (EC-No.) 614-209-5 (EC Index-No.) N/A (REACH-no) N/A	≥ 1 < 5	Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), α-[(9Z)-2-[(1-oxo-9-octadecen-1-yl)amino]ethyl]-ω-hydroxy-	(CAS-No.) 26027-37-2 (EC-No.) 607-851-2 (EC Index-No.) N/A (REACH-no) N/A	≥ 1 < 5	Eye Irrit. 2, H319
Amides, from 2-(2-aminoethoxy)ethanol manuf. low-boiling by-products and low-boiling tall-oil fatty acids	(CAS-No.) 70131-54-3 (EC-No.) 274-327-4 (EC Index-No.) N/A (REACH-no) N/A	≥ 1 < 3	Eye Dam. 1, H318
Alcohols, C16-18 and C18-unsatd., ethoxylated	(CAS-No.) 68920-66-1 (EC-No.) 500-236-9 (EC Index-No.) N/A (REACH-no) 01-2119489407-26	≥ 1 < 2,5	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 (REACH-no) 01-2120761540-60	≥ 0,05 < 0,25	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

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2-methylisothiazol-3(2H)-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (EC Index-No.) 613-326-00-9 (REACH-no) N/D	$\geq 0,0015 < 0,25$	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0,05 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
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Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 (REACH-no) 01-2120761540-60	(0,05 ≤C ≤ 100) Skin Sens. 1, H317
2-methylisothiazol-3(2H)-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (EC Index-No.) 613-326-00-9 (REACH-no) N/D	(0,0015 ≤C ≤ 100) Skin Sens. 1A, H317

Notes

- : Note [*]:
this product has a value of DMSO extract < 3 % wt, according to IP 346. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.
- Note [**]:
substance with occupational exposure limits for some EU countries affecting the category of mineral oils (finely refined mineral base oil mists; see section 8.1)

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.

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 skin irritation or rash occurs, get medical advice/attention. 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. Get medical attention from a specialist, or take to a hospital.

First-aid measures after ingestion : Rinse mouth with water (only if the person is conscious). Do not induce vomiting to avoid aspiration into the lungs. Keep at rest. 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. Do not give anything by mouth to an unconscious person.

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

Symptoms / injuries (general indications)	: There are potential chronic health effects to consider.
Symptoms/effects after inhalation	: Overexposure to vapours (e.g. through prolonged use in confined, insufficiently ventilated spaces) may cause irritation to airways, nausea and dizziness.
Symptoms/effects after skin contact	: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Irritation of the gastric/intestinal mucosa. May cause nausea, dizziness and/or vomiting.
Symptoms/effects upon intravenous administration	: No information available.
Chronic symptoms	: May cause harm to breast-fed children.

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	: Dry chemical, CO ₂ , or water spray or regular foam. Other extinguishing gases (according to regulations).
Unsuitable extinguishing media	: Do not use water jets. They could cause splattering, and spread the fire. Use extinguishing media and procedures appropriate for the surrounding materials. 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	: Not flammable. The vapours are flammable and may form explosive mixtures with air. The vapours are heavier than air and will accumulate in closed areas and at ground level, with backfire hazard.
Explosion hazard	: No direct explosion hazard. Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NO _x (harmful/toxic gases). Combustion products include sulphur oxides (SO ₂ and SO ₃) and Hydrogen sulphide H ₂ S. NaO _x . HCl and other chlorine compounds.

5.3. Advice for firefighters

Firefighting instructions	: Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. 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). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659.
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.
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6.1.1. For non-emergency personnel

Protective equipment	: See Section 8.
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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 working clothes are usually adequate. Large spillages: full body suit of chemically resistant material. Work gloves (preferably gauntlets) providing adequate chemical resistance. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. 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 combined dust/organic vapour filter(s), 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

Clear spills immediately. Prevent product from entering sewers, rivers or other bodies of water. 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. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.3. Methods and material for containment and cleaning up

For containment : Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid in suitable containers. Clean contaminated area. Dispose of according to local regulations. When inside buildings or confined spaces, ensure adequate ventilation. If in 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.

Methods for cleaning up : Wash contaminated area with large amounts of water.

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

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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. 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.

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- Hygiene measures
- : Ensure that proper housekeeping measures are in place. 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. Take off immediately all contaminated clothing and wash it before reuse. Drain and clean regularly the tanks, as risks increase with degradation and contamination of the product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately.

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 oxidants. Strong acids. strong alkalis.
- 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. 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

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Belgium - Occupational Exposure Limits	
OEL TWA	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
OEL STEL	2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Netherlands - Occupational Exposure Limits	
MAC TGG 8h (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
VLA-EC (mg/m ³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

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Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

Sweden - Occupational Exposure Limits

NGV (OEL TWA)	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
KTV (OEL STEL)	3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
WEL STEL (OEL STEL)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
ACGIH OEL STEL	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)

Germany - Occupational Exposure Limits (TRGS 900)

AGW (OEL TWA) [1]	6 mg/m ³ (Inhalable aerosol)
Limitation of exposure peaks (mg/m ³)	48 mg/m ³ (Inhalable aerosol)

Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics ((64742-48-9))

Germany - Occupational Exposure Limits (TRGS 900)

AGW (OEL TWA) [1]	300 mg/m ³
AGW (OEL TWA) [2]	50 ppm

Poland - Occupational Exposure Limits

NDS (OEL TWA)	300 mg/m ³
NDSch (OEL STEL)	900 mg/m ³

Switzerland - Occupational Exposure Limits

MAK (OEL TWA) [1]	300 mg/m ³
MAK (OEL TWA) [2]	50 ppm
VLE [mg/m ³]	600 mg/m ³
VLE [ppm]	100 ppm

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	67,5 mg/m ³
IOELV TWA (ppm)	10 ppm
IOELV STEL (mg/m ³)	101,2 mg/m ³
IOELV STEL (ppm)	15 ppm

Austria - Occupational Exposure Limits

MAK (OEL TWA)	67,5 mg/m ³
MAK [ppm]	10 ppm
MAK (OEL STEL)	101,2
MAK Short time value [ppm]	15 ppm

Belgium - Occupational Exposure Limits

OEL TWA	67,5 mg/m ³
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2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
Limit value [ppm]	10 ppm
Short time value [mg/m ³]	67,5 mg/m ³
Short time value [ppm]	15 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	200 mg/m ³
OEL STEL	100 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	101,2
VME [ppm]	15 ppm
VLE [mg/m ³]	67,5 mg/m ³
VLE [ppm]	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	67 mg/m ³
AGW (OEL TWA) [2]	10 ppm
Limitation of exposure peaks (mg/m ³)	101,2 mg/m ³
Limitation of exposure peaks (ppm)	15 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	67,5 mg/m ³
CK-érték	101,2 mg/m ³
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	67,5 mg/m ³ (Dlgs 81/2008)
OEL STEL (mg/m ³)	101,2 mg/m ³ (Dlgs 81/2008)
Latvia - Occupational Exposure Limits	
OEL TWA	67,5 mg/m ³
OEL TWA (ppm)	10 ppm
Netherlands - Occupational Exposure Limits	
MAC TGG 8h (mg/m ³)	50 mg/m ³
MAC TGG 15 min (mg/m ³)	100 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	67 mg/m ³
NDSch (OEL STEL)	100 mg/m ³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	67,5 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm
VLA-EC (mg/m ³)	101,2 mg/m ³
VLA-EC (ppm)	15 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	100 mg/m ³
Nivågränsvärde (NVG) (ppm)	15 ppm
KTV (OEL STEL)	200 mg/m ³

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2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
KTV (OEL STEL) [ppm]	30 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	67,5 mg/m ³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	101,2 mg/m ³
WEL STEL (OEL STEL) [ppm]	15 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	67,5 mg/m ³
ACGIH TLV®-TWA (ppm)	10 ppm
ACGIH OEL STEL	101,2 mg/m ³
ACGIH TLV®-STEL (ppm)	15 ppm

2-phenoxyethanol (122-99-6)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	110 mg/m ³
MAK [ppm]	20 ppm
MAK (OEL STEL)	110 mg/m ³
MAK Short time value [ppm]	20 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	110 mg/m ³
HTP (OEL TWA) [2]	20 ppm
HTP (OEL STEL)	290 mg/m ³
HTP-arvo (15 min) (ppm)	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	110 mg/m ³
AGW (OEL TWA) [2]	20 ppm
Limitation of exposure peaks (mg/m ³)	220 mg/m ³
Limitation of exposure peaks (ppm)	40 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	230 mg/m ³
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	110 mg/m ³
MAK (OEL TWA) [2]	20 ppm
VLE [mg/m ³]	220 mg/m ³
VLE [ppm]	40 ppm

8.1.2. Recommended monitoring procedures

Monitoring methods	
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.

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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

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DNEL/DMEL (additional information)	
Additional information	Not applicable
PNEC (additional information)	
Additional information	Not applicable

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,73 mg/m ³
Long-term - local effects, inhalation	5,58 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,74 mg/kg bodyweight/day
Long-term - local effects, inhalation	1,19 mg/m ³
PNEC (Oral)	
PNEC oral (secondary poisoning)	9,33 mg/kg food
PNEC (additional information)	
Additional information	Not derived - Not classified as hazardous for environment

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	47,9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,7 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,58 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2 mg/m ³
Long-term - systemic effects, dermal	28,75 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1 µg/l
PNEC aqua (marine water)	0,2 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5 mg/kg dwt
PNEC sediment (marine water)	1 mg/kg dwt
PNEC (Soil)	
PNEC soil	10,5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	80 mg/l

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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/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0,8333 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,33 mg/m ³
Long-term - systemic effects, dermal	1,667 mg/kg bodyweight/day

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
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics ((64742-48-9))

DNEL/DMEL (additional information)

Additional information	No-threshold effect and/or no dose-response information available
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PNEC (additional information)

Additional information	Not derived - Not classified as hazardous for environment
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2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)

DNEL/DMEL (Workers)

Acute - local effects, inhalation	101,2 mg/m ³
Long-term - local effects, dermal	83 mg/cm ²
Long-term - systemic effects, inhalation	67,5 mg/m ³
Long-term - local effects, inhalation	67,5 mg/m ³

DNEL/DMEL (General population)

Acute - local effects, inhalation	60,7 mg/m ³
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	40,5 mg/m ³
Long-term - systemic effects, dermal	50 mg/kg bodyweight/day
Long-term - local effects, inhalation	40,5 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	1,1 mg/l
PNEC aqua (marine water)	0,11 mg/l
PNEC aqua (intermittent, freshwater)	11 mg/l

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PNEC (Sediment)	
PNEC sediment (freshwater)	4,4 mg/kg dwt
PNEC sediment (marine water)	0,44 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,32 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	56 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	200 mg/l

2-phenoxyethanol (122-99-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	34,72 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8,07 mg/m ³
Long-term - local effects, inhalation	8,07 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	9,23 mg/kg bodyweight
Long-term - systemic effects, oral	9,23 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,41 mg/m ³
Long-term - systemic effects, dermal	10,42 mg/kg bodyweight/day
Long-term - local effects, inhalation	2,41 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,943 mg/l
PNEC aqua (marine water)	94,3 µg/l
PNEC aqua (intermittent, freshwater)	3,44 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	7,237 mg/kg dwt
PNEC sediment (marine water)	0,723 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,31 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	36 mg/l

Amides, from 2-(2-aminoethoxy)ethanol manuf. low-boiling by-products and low-boiling tall-oil fatty acids (70131-54-3)	
DNEL/DMEL (additional information)	
Additional information	No-threshold effect and/or no dose-response information available
PNEC (additional information)	
Additional information	Not derived - Not classified as hazardous for environment

Alcohols, C16-18 and C18-unsatd., ethoxylated (68920-66-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2080 mg/kg bodyweight/day

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Long-term - systemic effects, inhalation	294 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	87 mg/m ³
Long-term - systemic effects, dermal	1250 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	7,2 µg/l
PNEC aqua (marine water)	700 ng/l
PNEC aqua (intermittent, freshwater)	100 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	22,79 mg/kg dwt
PNEC sediment (marine water)	2,28 mg/kg dwt
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10000 mg/l

1,2-benzisothiazol-3(2H)-one (2634-33-5)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	966 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,81 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	1,2 mg/m ³
Long-term - systemic effects, dermal	345 µg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	4,03 µg/l
PNEC aqua (marine water)	403 ng/l
PNEC aqua (intermittent, freshwater)	1,1 µg/l
PNEC aqua (intermittent, marine water)	110 ng/l
PNEC (Sediment)	
PNEC sediment (freshwater)	49,9 µg/kg dw
PNEC sediment (marine water)	4,99 µg/kg dw
PNEC (Soil)	
PNEC soil	3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1,03 mg/l

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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.

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. 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.

8.2.2. Personal protection equipment

Personal protective equipment (for industrial or professional use):

Protective clothing. Gloves. Safety glasses. Safety shoes or boots.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Long-sleeved overalls. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area. Non-skid safety shoes or boots, chemical resistant.

Hand protection:

Protective gloves. 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
Prolonged use	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4 mm	N/D	EN ISO 374
Prolonged use	Chloroprene rubber (CR)	6 (> 480 minutes)	> 0,5 mm	N/D	EN ISO 374
Prolonged use	PVC (Polyvinyl chloride)	6 (> 480 minutes)	> 0,7 mm	N/D	EN ISO 374

8.2.2.3. Respiratory protection

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Respiratory protection:

Not necessary with sufficient ventilation. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. 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). Combined gas/dust mask with filter type: Type A. EN 14387

8.2.2.4. Thermal hazards

Thermal hazard protection:

None in normal use conditions.

8.2.3. Environmental exposure controls

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.

Other information:

Chlorinated paraffins: with reference to the applicable ES (# 10 - Use in metalworking fluids), available information indicates that for products containing > 10% of MCCP (chlorinated paraffins), exposure by skin contact must be controlled by additional measures.

For this purpose, the same information advise to refer to the document "UK (2008) ANNEX XV RESTRICTION REPORT" (http://echa.europa.eu/documents/10162/13630/trd_uk_mccp_en.pdf). The necessary measures are described there as follows:

1 - Where there is continuous use of the product, all the following RMMs must be put in place and followed:

- the process should be enclosed;
- autofeed of the parts;
- autocollection of the parts;
- components should be collected into a container to take to and during cleaning/de-oiling, to avoid exposure to fluids during transport, and cuts from sharps.
- A pump should be used to transfer the product. Do not pour manually. Prevent skin contact with the product and splashing.

2 - Where there is frequent use of the product (i.e. some use every day but it is not continuous), the following RMMs should be put in place:

- a remotely controlled valve should be used to control the flow of product, so that the product only flows when the machining operation is in progress. Operators should not put their hands near the tool during operation, to avoid contact with skin.
- splash guard at the machine;
- components should be collected into a container to take to and during cleaning/de-oiling. to avoid exposure to fluids during transport, and cuts from sharps;
- close fitting protection gloves should be worn when components need to be handled.

3 - For micro-firms, the following RMMs should be implemented:

- operators must not put their hands into/near a moving machine. Before making adjustments or handling parts, the machine should be stopped;
- when adjusting machine, operators must wear single use protection gloves which are the correct size and close fitting;
- when transporting machined parts operators must use a container.

These indications are considered in general as adequate protective measures. Additional details, such as exposure/RCR calculations and a possible scaling, will be provided when defined by further analysis by the original supplier.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid, bright & clear.
Colour	: Pale yellow.
Odour	: Glycol. Pungent.
Odour threshold	: There are no data available on the preparation/mixture itself.
pH	: No data available
pH solution	: 8,9 – 9,3 (20 °C - 5%, water)
Relative evaporation rate (butylacetate=1)	: Negligible.

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Melting point	: Not applicable
Freezing point	: ≤ 0 °C (according to composition)
Boiling point	: > 100 °C (according to composition)
Flash point	: > 61 °C (according to composition)
Critical temperature	: Not applicable for mixtures
Auto-ignition temperature	: Lack of data (on mixture / components of the mixture) - Data not available
Decomposition temperature	: Lack of data (on mixture / components of the mixture) - Data not available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: ≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Critical pressure	: Not applicable for mixtures
Relative vapour density at 20 °C	: > 1 (according to composition)
Relative density	: Lack of data (on mixture / components of the mixture) - Data not available
Density	: 1015 – 1025 g/cm ³ (at 20 °C) (ASTM D 4052)
Solubility	: Water: Dispersible in water
Log Pow	: Not applicable for mixtures
Log Kow	: Not applicable for mixtures
Viscosity, kinematic	: 38 – 48 mm ² /s (40°C) (ASTM D 445)
Viscosity, dynamic	: Lack of data (on mixture / components of the mixture) - Data not available
Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Explosive limits	: No data available

9.2. Other information

Additional information : No data available

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). Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. 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.

10.5. Incompatible materials

Strong oxidants or reducing substances. Strong bases/alkalis. Alkali metals.

10.6. Hazardous decomposition products

Thermal decomposition generates : CO_x, HC, NO_x, chlorinated compounds. In exceptional cases (i.e prolonged 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. See also Section 16, "Other information".

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

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Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

LD50 oral rat	> 5000 mg/kg (OECD 401)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403)

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	≥ 4000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	3,3 – 48 mg/l (1h)

Sulfonic acids, petroleum, sodium salts (68608-26-4)

LD50 dermal rabbit	5000 mg/kg bodyweight
LC50 Inhalation - Rat	1,9 mg/l/4h

Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics ((64742-48-9))

LD50 oral rat	5000 – 15000 mg/kg bodyweight
LD50 dermal rat	3160 – 5000 mg/kg bodyweight
LC50 Inhalation - Rat	4,9 – 9,3 mg/l/4h

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)

LD50 oral rat	3384 mg/kg bodyweight
LD50 dermal rabbit	2700 mg/kg bodyweight

2-phenoxyethanol (122-99-6)

LD50 oral rat	1840 – 4070 mg/kg bodyweight
LD50 dermal rabbit	2214 mg/kg bodyweight

Poly(oxy-1,2-ethanediyl), α-[(9Z)-2-[(1-oxo-9-octadecen-1-yl)amino]ethyl]-ω-hydroxy- (26027-37-2)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Alcohols, C16-18 and C18-unsatd., ethoxylated (68920-66-1)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	2000 – 3000 mg/kg bodyweight
LC50 Inhalation - Rat	1,6 mg/l/4h

1,2-benzisothiazol-3(2H)-one (2634-33-5)

LD50 oral rat	597 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.
Serious eye damage/irritation	: Causes serious eye irritation.

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Additional information	: (according to composition)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Additional information	: (according to composition) This product contains components with a Specific Concentration Limit (SCL). Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. Causes sensitisation
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) This product contains : Distillates (petroleum), solvent-refined light paraffinic; Baseoil—unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).] this product has a value of DMSO extract < 3 % wt, according to IP 346. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.
Reproductive toxicity	: May cause harm to breast-fed children.
Additional information	: (according to composition) This product contains : Chlorinated paraffins Chlorinated paraffins: with reference to the applicable ES (Use in metalworking fluids), the original supplier reports that for products containing > 10% of MCCP (chlorinated paraffins), exposure by skin contact must be controlled by additional measures. For this purpose, the original supplier advises to refer to the document “UK (2008) ANNEX XV RESTRICTION REPORT” (http://echa.europa.eu/documents/10162/13630/trd_uk_mccp_en.pdf). The necessary measures are described there as follows: 1 - Where there is continuous use of the product, all the following RMMs must be put in place and followed: - the process should be enclosed; - autofeed of the parts; - autocollection of the parts; - components should be collected into a container to take to and during cleaning/de-oiling, to avoid exposure to fluids during transport, and cuts from sharps. - A pump should be used to transfer the product. Do not pour manually. Prevent skin contact with the product and splashing. 2 - Where there is frequent use of the product (i.e. some use every day but it is not continuous), the following RMMs should be put in place: - a remotely controlled valve should be used to control the flow of product, so that the product only flows when the machining operation is in progress. Operators should not put their hands near the tool during operation, to avoid contact with skin. - splash guard at the machine; - components should be collected into a container to take to and during cleaning/de-oiling, to avoid exposure to fluids during transport, and cuts from sharps; - close fitting protection gloves should be worn when components need to be handled. 3 - For micro-firms, the following RMMs should be implemented: - operators must not put their hands into/near a moving machine. Before making adjustments or handling parts, the machine should be stopped; - when adjusting machine, operators must wear single use protection gloves which are the correct size and close fitting; - when transporting machined parts operators must use a container.
	These indications are considered in general as adequate protective measures. Additional details, such as exposure/RCR calculations and a possible scaling, will be provided when defined by further analysis by the original supplier.

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alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)

NOAEL (animal/male, F0/P)	> 400 mg/kg bodyweight
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STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
Additional information : (according to composition)

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)

LOAEL (oral, rat)	> 360 mg/kg bodyweight
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NOAEL (oral, rat)	23 mg/kg bodyweight
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Sulfonic acids, petroleum, sodium salts (68608-26-4)

NOAEL (oral, rat)	500 mg/kg bodyweight
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NOAEL (dermal, rat/rabbit)	1000 mg/kg bodyweight
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NOAEC (inhalation, rat, vapour)	49,5 mg/l/4h
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2-methylisothiazol-3(2H)-one (2682-20-4)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Additional information : (according to composition)

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (OECD TG 408)
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alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)

LOAEL (oral, rat, 90 days)	> 360 mg/kg bodyweight/day
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NOAEL (oral, rat, 90 days)	> 23 mg/kg bodyweight/day
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Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics ((64742-48-9))

NOAEL (oral, rat, 90 days)	1000 – 5000 mg/kg bodyweight/day
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NOAEC (inhalation, rat, vapour, 90 days)	275 – 10400 mg/m ³
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Alcohols, C16-18 and C18-unsatd., ethoxylated (68920-66-1)

NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight/day
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Additional information : (according to composition)
Viscosity, kinematic: > 20,5 mm²/s (40 °C) (ASTM D 445)

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Viscosity, kinematic	38 – 48 mm ² /s (40°C) (ASTM D 445)
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Potential adverse human health effects and symptoms : Irritating to eyes, Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, May cause harm to breast-fed children, May cause sensitization by skin contact, Avoid all eye and skin contact and do not breathe vapour and mist, Do not expose pregnant or breastfeeding women

Other information : None

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. An uncontrolled release to the environment may produce a contamination of different environmental compartments (soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment. Notify authorities if product enters sewers or public waters.
Ecology - air	: According to the characteristics of the components, a fraction of the product will evaporate quickly, diffusing in the atmosphere: this phenomenon may promote the creation of photochemical smog.
Ecology - water	: Toxic to aquatic life. Dispersible in water.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

LC50 fish 1	> 100 mg/l (LL 50)
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)

Alkanes, C14-17, chloro (85535-85-9)

LC50 other aquatic organisms 1	> 1 mg/l (Gammarus pulex, 96 h)
EC50 Daphnia 1	0,006 mg/l
EC50 96h - Algae [1]	> 3,2 mg/l (Selenastrum capricornutum)
ErC50 (algae)	≥ 3,2 mg/l (96h)
LOEC (chronic)	0,018 mg/l (21d)
NOEC (acute)	0,01 mg/l
NOEC (chronic)	0,22 mg/l (Mytilus edulis, 60d)
NOEC chronic crustacea	0,01 mg/l (21d, Daphnia magna)

Sulfonic acids, petroleum, sodium salts (68608-26-4)

EC50 72h - Algae [1]	1000 mg/l
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Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics ((64742-48-9))

LC50 fish 1	≥ 1000 mg/l Oncorhynchus mykiss (96 h)
EC50 Daphnia 1	≥ 1000 mg/l
EC50 72h - Algae [1]	≥ 1000 mg/l (EL50)
ErC50 (algae)	≥ 1000 mg/l Scenedesmus subspicatus (96 h)
NOEC chronic fish	88 µg/L (NOELR, 28d)
NOEC chronic crustacea	25 µg/L (21d)

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

LC50 fish 1	≥ 100 mg/l
EC50 Daphnia 1	≥ 100 mg/l (48 h)
ErC50 (algae)	≥ 100 mg/l

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2-phenoxyethanol (122-99-6)

LC50 fish 1	220 – 460 mg/l
EC50 Daphnia 1	500 mg/l
EC50 72h - Algae [1]	443 – 625 mg/l
LOEC (chronic)	50 – 215 mg/l (34d)
NOEC (chronic)	23 – 105,5 mg/l (34d)

Alcohols, C16-18 and C18-unsatd., ethoxylated (68920-66-1)

LC50 fish 1	108 mg/l
EC50 Daphnia 1	51 mg/l
EC50 72h - Algae [1]	100 mg/l

1,2-benzisothiazol-3(2H)-one (2634-33-5)

EC50 Daphnia 1	2,44 mg/l
EC50 other aquatic organisms 1	0,74 mg/l (EL50)

12.2. Persistence and degradability

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Persistence and degradability	A fraction of the constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
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Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

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.
Biodegradation	31 % (28d, Exxon 1995)

Alkanes, C14-17, chloro (85535-85-9)

Persistence and degradability	Not biodegradable. A fraction of the constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Biodegradation	> 50 % (36h)

12.3. Bioaccumulative potential

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Log Pow	Not applicable for mixtures
Log Kow	Not applicable for mixtures
Bioaccumulative potential	Not established.

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.
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Alkanes, C14-17, chloro (85535-85-9)

Bioconcentration factor (BCF REACH)	< 2000
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1,2-benzisothiazol-3(2H)-one (2634-33-5)

Bioconcentration factor (BCF REACH)	3,2
Log Pow	0,64

12.4. Mobility in soil

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Ecology - soil	No data available.
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Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

Ecology - soil	This product is not soluble in water. It floats on water and forms a film on the surface.
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Alkanes, C14-17, chloro (85535-85-9)

Ecology - soil	No data available.
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12.5. Results of PBT and vPvB assessment

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

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

Results of PBT-vPvB assessment	The components in this formulation do 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)
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Component

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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)
Alkanes, C14-17, chloro (85535-85-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment.

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.

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Product/Packaging disposal recommendations	: European Waste Catalogue code(s) (Decision 2001/118/CE): 12 01 06* (mineral-based machining oils containing halogens (except emulsions and solutions)) (Ref: 2001/118/CE), 12 01 08* (machining emulsions and solutions containing halogens) (as emulsion/solution) (Ref: 2001/118/CE). 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 EURAL code (EWC)	: The product as it is CONTAINS HALOGENATED SUBSTANCES. : 12 01 06* - Mineral-based machining oils containing halogens (except emulsions and solutions) : 12 01 08* - machining emulsions and solutions containing halogens

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Alkanes, C14-17, chloro), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR)	: Subject to the provisions
Classification code (UN)	: M6

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Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code : -

Transport by sea

Transport regulations (IMDG) : Subject to the provisions
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
IBC packing instructions (IMDG) : IBC03
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

Transport regulations (IATA) : Subject to the provisions
PCA Excepted quantities (IATA) : E1
PCA limited quantity max net quantity (IATA) : 30kgG
PCA max net quantity (IATA) : 450L
CAO max net quantity (IATA) : 450L

Inland waterway transport

Transport regulations (ADN) : Subject to the provisions
Classification code (ADN) : M6
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1

Rail transport

Transport regulations (RID) : Subject to the provisions
Classification code (RID) : M6
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Transport category (RID) : 3
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
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3(b)	Eni Aquamet 260 EP ; Distillates (petroleum), solvent-refined light paraffinic ; alkanes, C14-17, chloro; chlorinated paraffins, C14-17 ; Sulfonic acids, petroleum, sodium salts ; Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics ; 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether ; 2-phenoxyethanol ; Amides, from 2-(2-aminoethoxy)ethanol manuf. low-boiling by-products and low-boiling tall-oil fatty acids ; 2-methylisothiazol-3(2H)-one ; Alcohols, C16-18 and C18-unsatd., ethoxylated ; Poly(oxy-1,2-ethanediyl), α -[(9Z)-2-[(1-oxo-9-octadecen-1-yl)amino]ethyl]- ω -hydroxy-	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: 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
3(c)	Eni Aquamet 260 EP ; alkanes, C14-17, chloro; chlorinated paraffins, C14-17 ; 2-methylisothiazol-3(2H)-one ; Alcohols, C14-18, ethoxylated propoxylated ; Alcohols, C16-18 and C18-unsatd., ethoxylated	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
55.	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	2-(2-butoxyethoxy)ethanol (DEGBE)

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (EC 287-477-0, CAS 85535-85-9)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition regulations

: 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 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds). 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). Substances Depleting the Ozone layer (1005/2009) - Annex I Substances (ODP). Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC). Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.

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 Directive 2008/98/CE concerning disposal of used oils.

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France

Maladies professionnelles (F)

Code	Description
RG 36	Diseases caused by oils and fats of mineral or synthetic origin
RG 65	Eczematiform lesions of allergic mechanism
RG 66	Occupational rhinitis and asthma

Germany

Employment restrictions	: Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed. Employment prohibitions and restrictions according to § 11 and § 12 MuSchG have to be observed.
Water hazard class (WGK) (D)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
WGK remark	: Classification is carried out on the basis of the Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)) of 18 April 2017 (BGBl 2017, Teil I, Nr. 22, Seite 905).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
National Rules and Recommendations	: TRGS 400: Hazard assessment for activities involving Hazardous Substances TRGS 401: Risks resulting from skin contact - identification, assessment, measures TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure TRGS 500: Protective measures TRGS 510: Storage of hazardous substances in non-stationary containers TRGS 555: Working instruction and information for workers TRGS 900: Occupational Exposure Limits TRGS 905: List of mutagenic, carcinogenic or teratogenic substances TRGS 906: List of carcinogenic activities or procedures according to § 3 Abs. 2 Nr. 3 GefStoffV
Storage class (LGK, TRGS 510)	: LGK 12 - Non-combustible liquids
VbF class (D)	: A III - Liquids with a flashpoint above 55 °C up to 100 °C
Netherlands	
Waterbevaarlijkheid	: 5 - Very toxic to aquatic organisms 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Saneringsinspanningen	: C - Minimize discharge
SZW-lijst van kankerverwekkende stoffen	: Distillates (petroleum), solvent-refined light paraffinic, Alkanes, C14-17, chloro, Sulfonic acids, petroleum, sodium salts, Amides, from 2-(2-aminoethoxy)ethanol manuf. low-boiling by-products and low-boiling tall-oil fatty acids are listed
SZW-lijst van mutagene stoffen	: Distillates (petroleum), solvent-refined light paraffinic, Alkanes, C14-17, chloro, Sulfonic acids, petroleum, sodium salts, Amides, from 2-(2-aminoethoxy)ethanol manuf. low-boiling by-products and low-boiling tall-oil fatty acids are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: Alkanes, C14-17, chloro is listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Pregnant/breastfeeding women working with the product must not be in direct contact with it
Switzerland	
Storage class (LK)	: LK 10/12 - Liquids

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been not carried out

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A chemical safety assessment has been carried out for the following components of this mixture:

Distillates (petroleum), solvent-refined light paraffinic alkanes, C14-17, chloro; chlorinated paraffins, C14-17
Sulfonic acids, petroleum, sodium salts
Hydrocarbons C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether
2-phenoxyethanol
Alcohols, C16-18 and C18-unsatd., ethoxylated
1,2-benzisothiazol-3(2H)-one

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Notes
1.1	Formula	Modified	
1.1	Type of product	Added	
1.1	Trade name	Modified	
1.1	Name	Modified	
1.1	UFI	Added	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]	Modified	
2.2	Hazard statements (CLP)	Modified	
2.3	Other hazards not contributing to the classification	Added	
3	Composition/information on ingredients	Modified	
3.2	Comments	Added	
3.2	Notes	Added	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures general	Modified	
4.2	Symptoms / injuries (general indications)	Added	
4.2	Symptoms/effects after skin contact	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Fire hazard	Modified	
5.2	Hazardous decomposition products in case of fire	Added	
5.2	Explosion hazard	Modified	
5.3	EAC code	Added	
5.3	Special protective equipment for firefighters	Modified	

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5.3	Firefighting instructions	Modified	
6.1	Protective equipment	Modified	
6.3	Methods for cleaning up	Added	
6.3	For containment	Modified	
7.1	Hygiene measures	Modified	
7.2	Packaging materials	Modified	
8.1	DNEL/DMEL and PNEC values	Added	
8.2	Respiratory protection	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
8.2	Personal protective equipment (for industrial or professional use)	Modified	
8.2	Appropriate engineering controls	Modified	
9.1	Melting point	Added	
9.1	Viscosity, dynamic	Added	
9.1	Relative density	Added	
9.1	Decomposition temperature	Added	
9.1	Auto-ignition temperature	Added	
9.1	Flash point	Modified	
9.1	Boiling point	Modified	
9.1	pH solution	Modified	
9.1	Viscosity, kinematic	Modified	
9.1	Density	Modified	
10.3	Possibility of hazardous reactions	Modified	
10.4	Conditions to avoid	Modified	
11.1	Potential adverse human health effects and symptoms	Modified	
11.1	Additional information	Modified	
11.1	Additional information	Modified	
11.1	Additional information	Modified	
11.1	Additional information	Modified	
11.1	Additional information	Modified	
11.1	Reason for no classification	Added	
12.1	Ecology - air	Modified	
12.1	Ecology - general	Modified	
12.1	Ecology - water	Modified	
14	Transport information	Modified	
14.7	IBC code	Modified	
15.1	Other information, restrictions and prohibition regulations	Modified	
15.1	VbF class (D)	Modified	

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15.1	Storage class (LGK) (D)	Modified	
15.1	Water hazard class (WGK) (D)	Modified	
15.1	WGK remark	Modified	
15.1	Other information, restriction and prohibition regulations	Added	
16	Indication of changes	Added	

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
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

- 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.

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Other information : Do not use the product for any purposes that have not been advised by the manufacturer. 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-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
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
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H362	May cause harm to breast-fed children.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Concentration limits

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Lact.	H362	Concentration limits
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet (SDS), EU

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.