

Safety Data Sheet

According to Regulation (EU) No. 830/2015 Revision date: 29/04/2020 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Eni EMD 40

Product code : 7690

Type of product : Lubricants

Formula : 0073-2014

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, Consumer use

Industrial/Professional use spec : Wide dispersive use

Used in closed systems

Use of the substance/mixture : Lubricant for internal combustion engines

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

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]

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — H411

Chronic Hazard, Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Contact with eyes may cause temporary reddening and irritation. 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.

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2.2. Label elements

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

Hazard pictograms (CLP)





CLP Signal word : Warning

Hazardous ingredients and/or with relevant

occupational exposure limits
Hazard statements (CLP)

: H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.

Title to aquato ino mariong crosses.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P261 - Avoid breathing mist, spray, vapours. P273 - Avoid release to the environment.

P280 - Wear protective gloves, eye protection, face protection, protective clothing.

: Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts

P333+P313 - If skin irritation or rash occurs, get medical advice/attention. P362+P364 - Take off contaminated clothing and wash before reuse.

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

: 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. 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 an hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop. A potential risk may arise from the release of hydrogen sulfide, when the product is stored or handled at high temperature. Hydrogen sulfide may accumulate in the tanks or other confined spaces, with danger to the workers that enter the spaces. In these cases overexposure to hydrogen sulfide may cause irritation to airways, nausea, dizziness, loss of consciousness and death.

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

Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (see note [**], see note [***])	(CAS-No.) 101316-72-7 (EC-No.) 309-877-7 (EC Index-No.) 649-530-00-X (REACH-no) 01-2119489969-06-0000	70 - 80	Not classified
Residual oils (petroleum,) solvent-refined (see note [**], see note [***])	(CAS-No.) 64742-01-4 (EC-No.) 265-101-6 (EC Index-No.) 649-459-00-4 (REACH-no) 01-2119488707-21	10 - 15	Not classified
Mineral base oil, severely refined (For identification of the substance, see note [*], see note [***])		5 - 10	Not classified
Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased (Additive)	(CAS-No.) 90480-91-4 (EC-No.) 291-829-9 (EC Index-No.) N/A (REACH-no) N/A	3 - 5	Aquatic Chronic 4, H413
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (Additive)	(CAS-No.) 722503-68-6 (EC-No.) 682-816-2 (EC Index-No.) N/A (REACH-no) N/A	1 - 1,5	Skin Sens. 1, H317 Aquatic Chronic 4, H413

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Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives (Additive)	(CAS-No.) 84605-20-9 (EC-No.) 617-593-2 (EC Index-No.) N/A (REACH-no) N/A	1 - 1,5	Aquatic Chronic 4, H413
Phenol, (tetrapropenyl) derivatives	(CAS-No.) 74499-35-7 (EC-No.) N/A (EC Index-No.) 604-092-00-9 (REACH-no) N/A	0,1 - 0,15	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched	(CAS-No.) 121158-58-5 (EC-No.) 310-154-3 (EC Index-No.) 604-092-00-9 (REACH-no) 01-2119513207-49	0,1 - 0,15	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Notes

: [*] Note: this product may be formulated with one or more of the following severely refined mineral base oils (not classified as hazardous):

CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx; CAS 64742-65-0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx.

All these substances have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)

Note [**]:

this product has a value of DMSO extract < 3% wt, according to IP 346/92. 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-statements: see section 16

SECTION 4: First aid measures

4.1	Description	of first a	id measures

First-aid measures after inhalation

: Remove to fresh air, keep the casualty warm and at rest. If breathing is difficult, give oxygen if possible, or assisted ventilation. If necessary, give external cardiac massage and obtain medical advice. See also section 4.3.

First-aid measures after skin contact

Remove contaminated clothing and shoes. Wash skin with soap and water. If skin irritation or rash occurs, get medical advice/attention. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor.

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. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor.

First-aid measures after ingestion

Rinse mouth thoroughly with water. Give water to drink if victim completely conscious/alert. Do not induce vomiting. 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/effects after inhalation

: Inhalation of fumes or oil mists produced at high temperatures may cause irritation of the respiratory tract. Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision.

Symptoms/effects after skin contact

: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact. Contact with hot product may cause thermal burns.

Symptoms/effects after eye contact

: Contact with eyes may cause temporary reddening and irritation. Contact with hot product or vapours may cause burns.

Symptoms/effects after ingestion

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

Symptoms/effects 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

Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve. Seek medical attention in all cases of serious burns. In case of ingestion, drain stomach by gastric lavage ONLY under qualified medical supervision. 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.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only. 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

: 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.

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. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous decomposition products in case of

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.). CaOx.

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.

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

: Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. 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 helmet. Antistatic non-skid safety shoes or boots. 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 (A) (or A+B when applicable for H2S), 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. 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 (non-flammable). Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations. If in water: Confine the spillage. Remove from surface by skimming or suitable floating absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.

Methods for cleaning up

: Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations.

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Other information

: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water 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

This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. 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. The product may release Hydrogen Sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. 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, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

Handling temperature

Hygiene measures

: This product can be handled at ambient temperatures.

: 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 eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. 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

: Strong oxidizing agents.

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 containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.

Packaging materials

For containers, or container linings use materials specifically approved for use with this product. Compatibility should be checked with the manufacturer.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)				
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)		
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)		

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Lubricating oils (petrole	eum), C24-50, solvent-extd., dewaxed, hydrogena	ated (101316-72-7)
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)
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)
Residual oils (petroleum	n,) solvent-refined (64742-01-4)	
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)
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)
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)
Mineral base oil, severe	ly refined	
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)

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Mineral base oil, severely refined

Mineral base oil, severely	,		
Hungary	AK-érték		5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Netherlands	MAC TGG 8h (n	ng/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 (K	TV) (mg/m3)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL TWA (mg/ı	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)
Canada (Quebec)	VEMP (mg/m³)		5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-T	WA (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-S	TEL (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (TV	VA) (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (ST	EL) (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - OSHA	OSHA PEL (TW	A) (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Monitoring methods			
Monitoring methods			sen according to the indications set by national o relevant legislation and in any case to the good practice
Eni EMD 40		70	
	farma ations)		
DNEL/DMEL (additional inf			
		Not applicable	
	,	Not applicable	
PNEC (additional informati	,		
PNEC (additional information	ion)	Not applicable	
PNEC (additional information Additional information Lubricating oils (petroleum)	ion)		16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers)	ion) um), C24-50, solvent-	Not applicable -extd., dewaxed, hydrogenated (1013	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect	ion) um), C24-50, solvente	Not applicable -extd., dewaxed, hydrogenated (10131) 1 mg/kg bodyweight/day	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect Long-term - systemic effect	um), C24-50, solventests, dermal	Not applicable -extd., dewaxed, hydrogenated (1013 ²) 1 mg/kg bodyweight/day 2,7 mg/m ³	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in	cts, inhalation	Not applicable -extd., dewaxed, hydrogenated (10131) 1 mg/kg bodyweight/day	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in DNEL/DMEL (General pop	ion) Lum), C24-50, solventets, dermalets, inhalation inhalation oulation)	Not applicable extd., dewaxed, hydrogenated (10131 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleus DNEL/DMEL (Workers) Long-term - systemic effects Long-term - local effects, in DNEL/DMEL (General pop Long-term - systemic effects)	ion) Lum), C24-50, solventets, dermalets, inhalation inhalation oulation)	Not applicable -extd., dewaxed, hydrogenated (1013 ²) 1 mg/kg bodyweight/day 2,7 mg/m ³	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, ir DNEL/DMEL (General popt Long-term - systemic effect PNEC (Oral)	ion) Lum), C24-50, solventets, dermal ets, inhalation halation culation) ets,oral	Not applicable extd., dewaxed, hydrogenated (1013/ 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day	16-72-7)
PNEC (additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in DNEL/DMEL (General pop Long-term - systemic effect PNEC (Oral) PNEC oral (secondary pois	cts, dermal cts, inhalation chalation cts,oral cts,oral	Not applicable -extd., dewaxed, hydrogenated (1013 rd) 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleu DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in DNEL/DMEL (General pop Long-term - systemic effect PNEC (Oral) PNEC oral (secondary pois) Residual oils (petroleum,	cts, dermal cts, inhalation chalation cts,oral cts,oral	Not applicable -extd., dewaxed, hydrogenated (1013 rd) 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleum oils (petrol	ion) Lum), C24-50, solventets, dermal ets, inhalation inhalation outlation) ets,oral soning) ,) solvent-refined (64	Not applicable extd., dewaxed, hydrogenated (10131 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleum oils (petroleum oils (petroleum oils (petroleum oils (petroleum oils (petroleum oils oils (petroleum oils oils (petroleum oils oils (petroleum oils oils oils oils oils oils oils oils	ion) Lum), C24-50, solventets, dermal Lets, inhalation Inhalation Culation) Lets,oral	Not applicable extd., dewaxed, hydrogenated (10131 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 742-01-4) 5,58 mg/m³	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleum of the properties of	ion) Lum), C24-50, solventets, dermal Lts, inhalation Inhalation Culation) Lts,oral	Not applicable extd., dewaxed, hydrogenated (1013/ 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 1742-01-4) 5,58 mg/m³ 0,97 mg/kg bodyweight/day	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleum oils) Long-term - systemic effects, in oils (petroleum oils) Long-term - systemic effects, in oils (petroleum oils) PNEL/DMEL (General populary oils) PNEC (Oral) PNEC oral (secondary poils) Residual oils (petroleum, oils) DNEL/DMEL (Workers) Acute - systemic effects, in long-term - systemic effects Long-term - systemic effects	ion) Lum), C24-50, solventets, dermal ets, inhalation halation culation) ets,oral soning) J solvent-refined (64 halation ets, dermal ets, inhalation	Not applicable extd., dewaxed, hydrogenated (10131 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 742-01-4) 5,58 mg/m³	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleus DNEL/DMEL (Workers) Long-term - systemic effects, in DNEL/DMEL (General pop Long-term - systemic effects) PNEC (Oral) PNEC oral (secondary pois Residual oils (petroleum, DNEL/DMEL (Workers) Acute - systemic effects, in Long-term - systemic effect Long-term - systemic effect DNEL/DMEL (General pop DNEL/DMEL (General pop DNEL/DMEL (General pop	ion) Lum), C24-50, solventets, dermal ets, inhalation outlation) ets,oral soning) halation cts, dermal ets, inhalation cts, oral	Not applicable extd., dewaxed, hydrogenated (1013 rd) 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 742-01-4) 5,58 mg/m³ 0,97 mg/kg bodyweight/day 2,73 mg/m³	16-72-7)
PNEC (additional information Lubricating oils (petroleud DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in DNEL/DMEL (General populary Long-term - systemic effect PNEC (Oral) PNEC oral (secondary poist Residual oils (petroleum, DNEL/DMEL (Workers) Acute - systemic effects, in Long-term - systemic effect Long-term - systemic effect DNEL/DMEL (General populary Long-term - systemic effect DNEL/DMEL (General populary - systemic effect)	ion) Lum), C24-50, solventets, dermal ets, inhalation ets,oral soning) nhalation strong) nhalation ets,oral strong halation ets, dermal ets, dermal ets, inhalation ets, dermal ets, inhalation ets, dermal ets, inhalation ets,oral	Not applicable extd., dewaxed, hydrogenated (1013 rd) 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 742-01-4) 5,58 mg/m³ 0,97 mg/kg bodyweight/day 2,73 mg/m³ 0,74 mg/kg bodyweight/day	16-72-7)
PNEC (additional information Additional information Lubricating oils (petroleut DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in DNEL/DMEL (General popt Long-term - systemic effect PNEC (Oral) PNEC oral (secondary poist Residual oils (petroleum, DNEL/DMEL (Workers) Acute - systemic effects, in Long-term - systemic effect DNEL/DMEL (General popt Long-term - systemic effect DNEL/DMEL (General popt Long-term - systemic effect Long-term - systemic effect Long-term - systemic effect Long-term - local effects, in	ion) Lum), C24-50, solventets, dermal ets, inhalation ets,oral soning) nhalation strong) nhalation ets,oral strong halation ets, dermal ets, dermal ets, inhalation ets, dermal ets, inhalation ets, dermal ets, inhalation ets,oral	Not applicable extd., dewaxed, hydrogenated (1013 rd) 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 742-01-4) 5,58 mg/m³ 0,97 mg/kg bodyweight/day 2,73 mg/m³	16-72-7)
PNEC (additional information Lubricating oils (petroleud DNEL/DMEL (Workers) Long-term - systemic effect Long-term - local effects, in DNEL/DMEL (General populary Long-term - systemic effect PNEC (Oral) PNEC oral (secondary poist Residual oils (petroleum, DNEL/DMEL (Workers) Acute - systemic effects, in Long-term - systemic effect Long-term - systemic effect DNEL/DMEL (General populary Long-term - systemic effect DNEL/DMEL (General populary - systemic effect)	ion) Lum), C24-50, solventets, dermal ets, inhalation ets,oral soning) nhalation strong) nhalation ets,oral strong halation ets, dermal ets, dermal ets, inhalation ets, dermal ets, inhalation ets, dermal ets, inhalation ets,oral	Not applicable extd., dewaxed, hydrogenated (1013 rd) 1 mg/kg bodyweight/day 2,7 mg/m³ 5,6 mg/m³ 0,74 mg/kg bodyweight/day 9,33 mg/kg food 742-01-4) 5,58 mg/m³ 0,97 mg/kg bodyweight/day 2,73 mg/m³ 0,74 mg/kg bodyweight/day	16-72-7)

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phenol, dodecyl-, branched; phenol, 2-do	decyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	166 mg/kg bodyweight/day
Acute - systemic effects, inhalation	44,18 mg/m³
Long-term - systemic effects, dermal	0,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,762 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	50 mg/kg bodyweight
Acute - systemic effects, inhalation	13,26 mg/m³
Acute - systemic effects, oral	1,26 mg/kg bodyweight
Long-term - systemic effects,oral	0,075 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,79 mg/m³
Long-term - systemic effects, dermal	0,075 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,074 µg/l
PNEC aqua (marine water)	0,0074 μg/l
PNEC aqua (intermittent, freshwater)	0,37 μg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,226 mg/kg dwt
PNEC sediment (marine water)	0,0266 mg/kg dwt
PNEC (Soil)	
PNEC soil	118 μg/kg
PNEC (Oral)	
PNEC oral (secondary poisoning)	4 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
Note	: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived fron 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-

8.2. Exposure 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), check the atmosphere for oxygen content, presence of hydrogen sulphide (H2S) and SOx, and flammability. See also Section 16, "Other information".

by a process different from that of REACH.

term exposure limit (STEL). While also considered to be protective of health, OELs are derived

Personal protective equipment (for industrial or professional use):

Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.

Hand protection:

Protective gloves. Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). 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.

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. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

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. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated.

Respiratory protection:

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Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. Open or well ventilated spaces: if the product is handled without adequate containment: use full or half-face masks with adequate filter for organic vapours. (EN 136/140/145). Combination filter device (DIN EN 141). 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). Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H2S) or self-contained breathing apparatus (SCBA). (EN 136/140/145)

Personal protective equipment symbol(s):











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

Consumer exposure controls:

Wear protective gloves. Ensure adequate ventilation. Avoid excessive or improper use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid Clear liquid. Appearance Colour Yellow-brown. Odour : characteristic

Odour threshold There are no data available on the preparation/mixture itself.

Not applicable Relative evaporation rate (butylacetate=1) : No data available

Melting point : < -12 °C (pour point) (ASTM D 97)

: ≈ 0 °C (CAS 101316-72-7) Freezing point : >= 200 °C (ASTM D 1160) Boiling point : >= 195 °C (ASTM D 93) Flash point Critical temperature : Not applicable for mixtures Auto-ignition temperature : >= 300 °C (DIN 51794) Decomposition temperature : No data available

: Not applicable : <= 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010) Vapour pressure

Critical pressure : Not applicable for mixtures

Relative vapour density at 20 °C : No data available Relative density : No data available

Density : 905 kg/m3 (15°C) (ASTM D 4052) Solubility : This product is not soluble in water.

Log Pow : Not applicable for mixtures : Not applicable for mixtures Loa Kow

Viscosity, kinematic : 13,5 - 15 mm²/s (100°C); Viscosity, kinematic: > 20,5 mm²/s (40 °C) (ASTM D 445)

Viscosity, dynamic : No data available

: None (according to composition). Explosive properties Oxidising properties : None (according to composition). : LEL ≥ 45 g/m³ (mineral oil mists) Explosive limits

Other information

Flammability (solid, gas)

Additional information : No data available

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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.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Carbon dioxide, Carbon monoxide. 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

	1	ľ	1.1	١.	Inf	formatio	n on tox	icoloc	iical	effect	s
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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)

Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)			
LD50 oral rat	> 5000 mg/kg (API 1986, UBTL 1983 - OECD 401)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight (API 1986, UBTL 1984 - OECD 402)		
LC50 inhalation rat (mg/l)	2,18 - 5,53 mg/l/4h (API 1987, Exxon Biomedical Sciences, Inc. 1988, BioResearch Laboratories, Ltd. 1984 - OECD 403)		

Residual oils (petroleum,) solvent-refined (64742-01-4)		
LD50 oral rat 5000 mg/kg bodyweight		
LD50 dermal rat 2000 - 5000 mg/kg bodyweight		
LC50 inhalation rat (mg/l) 2,18 - 5,53 mg/l/4h		

Mineral base oil, severely refined	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)
LD50 dermal rat	> 5000 mg/kg bodyweight (OECD 402)
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (OECD 403)

Phenol,	(tetrapropenyl)	derivatives	(74499-35-7)

, (a) i i i i i i i i i i i i i i i i i i	,
LD50 oral rat	2100 - 2200 mg/kg bodyweight
LD50 dermal rabbit	15000 mg/kg bodyweight

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)			
LD50 oral rat 2100 - 2200 mg/kg bodyweight			
LD50 dermal rabbit 15000 mg/kg bodyweight			

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

pH: Not applicable

Additional information : (according to composition)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: Not applicable

Additional information : (according to composition)

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Additional information : (according to composition)

Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts.

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)

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Additional information	: (according to composition) This product contains: Lubricating oils (petroleum), C24-50, solvent-extd, dewaxed, hydrogenated; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C24 through C50 and produces a finished oil with a viscosity in the order of 16cSt to 75cSt at 40 °C (104 °F).], Residual oils (petroleum) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] this product has a value of DMSO extract < 3 % wt, according to IP 346/92. 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. 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) No carcinogenic effect
'	 Not classified (Based on available data, the classification criteria are not met) (according to composition) This product contains, as impurity, a substance (Dodecylphenol, branched) classified as Repr. 1B, H360F (CLP) according to the criteria of EU This product contains also: phenol, (tetrapropenyl) derivatives May damage fertility.

phenol, dodecyl-, branched; phenol, 2-dod	ecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)
NOAEL (animal/male, F1)	1,5 mg/kg
NOAEL (animal/female, F1)	15 mg/kg (OECD 416)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Lubricating oils (petroleum), C24-50, solve	nt-extd., dewaxed, hydrogenated (101316-72-7)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (Mobil 1990 - OECD TG 408)
LOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day (mouse, Chasey, K.L. and McKee, R.H. 1993 - OECD 453)
NOAEL (dermal, rat/rabbit, 90 days)	1000 - 2000 mg/kg bodyweight/day (API 1986, Mobil Environmental and Health Science Laboratory 1983 - OECD 410)
NOAEC (inhalation,rat, vapour, 90 days)	220 - 1500 mg/m³ (Exxon Biomedical Sciences, Inc. 1991, Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412)
Mineral base oil, severely refined	
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)
Additional information	: (according to composition) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)
Eni EMD 40	
Viscosity, kinematic	13,5 - 15 mm ² /s (100°C); Viscosity, kinematic: > 20,5 mm ² /s (40 °C) (ASTM D 445)
Potential adverse human health effects and symptoms	: Contact with eyes may cause temporary reddening and irritation. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact
0.0 1.6	N.

Other information : None.

SECTION 12: Ecological information

3	
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 (air, 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 - water	 This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)
Ecology - water	: Toxic to aquatic life.
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.
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Lubricating oils (petroleum), C24-50, sol	vent-extd., dewaxed, hydrogenated (101316-72-7)
LC50 fish 1	> 100 mg/l (LL 50, Exxon 1995 - OECD 203)
EC50 Daphnia 1	> 10000 mg/l (WAF, 48 h, Shell 1988 - OECD 202)
NOEC (acute)	>= 100 mg/l (Pseudokirchneriella subcapitata, 72h, OECD 201 - Petro-Canada 2008)
NOEC chronic fish	>= 1000 mg/l (Oncorhynchus mykiss, NOELR, 14d - QSAR, Redman, A. et al. 2010)
NOEC chronic crustacea	>= 1000 mg/l (21d, OECD 211 - Shell 1994)
Residual oils (petroleum,) solvent-refine	d (64742-01-4)
LC50 fish 1	100 mg/l
EC50 Daphnia 1	10 g/l
	10 9.
Mineral base oil, severely refined LC50 fish 1	. 400 mm// (11.50)
	> 100 mg/l (LL 50)
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)
Phenol, (tetrapropenyl) derivatives (7449	
LC50 fish 1	40 mg/l (Pimephales promelas)
EC50 Daphnia 1	37 - 92,7 μg/l
EC50 Daphnia 2	0,037 mg/l
EC50 other aquatic organisms 1	> 0,58 mg/l (96h, Mysidopsis Bahia)
ErC50 (algae)	0,36 mg/l (21d)
NOEC (chronic)	0,0037 mg/l (21d)
Dodecylphenol, mixed isomers, branche	d (121158-58-5)
LC50 fish 1	40 mg/l (Pimephales promelas)
EC50 Daphnia 1	37 - 92,7 µg/l
EC50 Daphnia 2	0,037 mg/l
EC50 other aquatic organisms 1	> 0,58 mg/l (96h, Mysidopsis Bahia)
EC50 72h algae (1)	0,36 mg/l
ErC50 (algae)	0,36 mg/l (21d)
NOEC (chronic)	0,0037 mg/l (21d)
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.
Lubricating oils (netroleum) C24-50 solv	vent-extd., dewaxed, hydrogenated (101316-72-7)
Persistence and degradability	The most significant constituents of the product should be considered as "inherently
Totalistation and adgradasinty	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Residual oils (petroleum,) solvent-refine	d (64742-01-4)
Persistence and degradability	Substance is complex UVCB. The test methods for this endpoint are not applicable to UVCB substances.
Mineral base oil, severely refined	
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.
Dodecylphenol, mixed isomers, branche	particularly in anaerobic conditions.
Dodecylphenol, mixed isomers, branche Biodegradation	particularly in anaerobic conditions.
Biodegradation	particularly in anaerobic conditions. d (121158-58-5)
Biodegradation 2.3. Bioaccumulative potential	particularly in anaerobic conditions. d (121158-58-5)
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40	particularly in anaerobic conditions. d (121158-58-5)
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow	particularly in anaerobic conditions. d (121158-58-5) 25 % (28 d, OECD TG 301 B)
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established.
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential Lubricating oils (petroleum), C24-50, solv	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established. vent-extd., dewaxed, hydrogenated (101316-72-7)
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential Lubricating oils (petroleum), C24-50, solubicaccumulative potential	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established. vent-extd., dewaxed, hydrogenated (101316-72-7) The test methods for this endpoint are not applicable to UVCB substances.
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential Lubricating oils (petroleum), C24-50, solution bioaccumulative potential Residual oils (petroleum,) solvent-refine	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established. vent-extd., dewaxed, hydrogenated (101316-72-7) The test methods for this endpoint are not applicable to UVCB substances. dd (64742-01-4)
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential Lubricating oils (petroleum), C24-50, solabioaccumulative potential Residual oils (petroleum,) solvent-refined Bioaccumulative potential	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established. vent-extd., dewaxed, hydrogenated (101316-72-7) The test methods for this endpoint are not applicable to UVCB substances. dd (64742-01-4) The test methods for this endpoint are not applicable to UVCB substances.
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential Lubricating oils (petroleum), C24-50, solidication oils (petroleum), Bioaccumulative potential Residual oils (petroleum,) solvent-refined Bioaccumulative potential Phenol, (tetrapropenyl) derivatives (7449)	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established. vent-extd., dewaxed, hydrogenated (101316-72-7) The test methods for this endpoint are not applicable to UVCB substances. dd (64742-01-4) The test methods for this endpoint are not applicable to UVCB substances.
Biodegradation 2.3. Bioaccumulative potential Eni EMD 40 Log Pow Log Kow Bioaccumulative potential Lubricating oils (petroleum), C24-50, solubicaccumulative potential Residual oils (petroleum,) solvent-refined Bioaccumulative potential	particularly in anaerobic conditions. dd (121158-58-5) 25 % (28 d, OECD TG 301 B) Not applicable for mixtures Not applicable for mixtures Not established. vent-extd., dewaxed, hydrogenated (101316-72-7) The test methods for this endpoint are not applicable to UVCB substances. dd (64742-01-4) The test methods for this endpoint are not applicable to UVCB substances.

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according to Regulation (EU) No. 830/2015		
Dodecylphenol, mixed isomers, branched (12	21158-58-5)	
Bioconcentration factor (BCF REACH)	794,33	
Log Kow	7,14	
12.4. Mobility in soil		
Eni EMD 40		
Ecology - soil	No data available.	
Lubricating oils (petroleum), C24-50, solvent	-extd., dewaxed, hydrogenated (101316-72-7)	
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.	
Residual oils (petroleum,) solvent-refined (64	742-01-4)	
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.	
12.5. Results of PBT and vPvB assessmen	ıt erine	
Eni EMD 40		
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	
Component		
Lubricating oils (petroleum), C24-50, solvent- extd., dewaxed, hydrogenated (101316-72-7)	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)	
Residual oils (petroleum,) solvent-refined (64742-01-4)	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	
Mineral base oil, severely refined ()	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)	
12.6. Other adverse effects		
Other adverse effects	: None.	
Additional information	: This product has no specific properties for inhibition of bacterial activity. In any case, wastewater containing this product should be treated in plants that are suited for the specific purpose.	
SECTION 13: Disposal consideration	s ,	

13.1.	Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

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 : Dispose of in a safe manner in accordance with local/national regulations. Do not apply

industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Product/Packaging disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05* (mineral-based non-

chlorinated engine, gear and lubricating oils). 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.

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

EURAL code (EWC) : 13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shippi	ng name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Transport document descr	Transport document description			
UN 3082 ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS

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ADR	IMDG	IATA	ADN	RID
SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,		SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,
N.O.S. (Dodecylphenol,	N.O.S., 9, III, MARINE		N.O.S., 9, III	N.O.S., 9, III
mixed isomers, branched),	POLLUTANT			
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	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : Yes	environment : Yes	environment : Yes	environment : Yes	environment : Yes
	Marine pollutant : Yes			
None.				

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Subject to the provisions

Classification code (UN) : M6
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 90

Hazard identification number (Kemler No.) : 90
Orange plates : 9

90 3082

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

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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:

3(b) 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	Eni EMD 40 - Phenol, (tetrapropenyl) derivatives - Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts - phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched
3(c) 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	Eni EMD 40 - Phenol, (tetrapropenyl) derivatives - Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts - phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched - Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives
30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched

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

Contains no REACH Annex XIV substances

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 (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC. Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC).

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 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

Reference to AwSV : Water hazard class (WGK) (D) 3, Highly hazardous to water (Classification according to AwSV,

Annex 1)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift

wassergefährdender Stoffe (VwVwS)

VbF class (D) : Not applicable.

Storage class (LGK) (D) : LGK 10 - Combustible liquids

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.

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12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Other information, restrictions and prohibition regulations

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

: 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 555: Working instruction and information for workers

TRGS 800: Fire protection measures
TRGS 900: Occupational Exposure Limits

TRGS 905: List of carcinogenic, mutagenic or toxic for reproduction substances

Netherlands

Waterbezwaarlijkheid : 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

7 - Toxic to aquatic organisms

Saneringsinspanningen : C - Minimize discharge

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

: Phenol, (tetrapropenyl) derivatives, Dodecylphenol, mixed isomers, branched are listed

Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with it

The requirements from the Danish Working Environment Authorities regarding work with

carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

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

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

Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated

Residual oils (petroleum,) solvent-refined

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched

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/D = not available
	N/A = not applicable
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

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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

Training advice

Other information

- : 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.
- : Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.
- 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 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. This situation is especially relevant for those operations which involve direct exposure to the vapours in the interior of tanks or other confined spaces. 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. Therefore, it is very important to follow the above mentioned precautionary measures also with used oils.

Full text of H- and EUH-statements:

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 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.
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.
H413	May cause long lasting harmful effects to aquatic life.

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

Skin Sens. 1	H317	Concentration limits
Aquatic Chronic 2	H411	Calculation method

SDS EU (REACH Annex II)

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.

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