

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 5/14/2025 Supersedes: 9/4/2024 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

: Eni Rotra FE 75W-80 Trade name

Product code : 1314 Type of product : Lubricants Formula : 0115-2015 : Trade product Product group

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

Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use

Industrial/Professional use spec : Used in closed systems

Wide dispersive use

Use of the substance/mixture : Gearbox lubricant

Do not use the product for any purposes that have not been advised by the manufacturer.

Function or use category : Lubricants and additives

1.3. Details of the supplier of the safety data sheet

Enilive S.p.A, Viale Giorgio Ribotta 51, 00144 Rome, ITALY, Tel. +39 06 59821

Competent person responsible for the safety data sheet (Reg. EC nr. 1907/2006): SDS.Enilive@enilive.com

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1.4. Emergency telephone number

: CNIT +39 0382 24444 (24h) (IT + EN) **Emergency number**

Poison Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment - Chronic Hazard, H411

Category 2

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

Adverse physicochemical, human health and environmental effects

Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May produce an allergic reaction. 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)



GHS09

CLP Signal word

Hazard statements (CLP) : H411 - Toxic to aquatic life with long lasting effects.

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

P102 - Keep out of reach of children.

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EUH-statements

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P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents/container to according to national or local regulations.

: EUH208 - Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

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. In case of contact with eyes, this product may cause irritation. 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.

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
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Dec-1-ene, trimers, hydrogenated (157707-86-3), Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Mineral base oil, severely refined (N/A), Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9), Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII

Dec-1-ene, trimers, hydrogenated (157707-86-3), Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Mineral base oil, severely refined (N/A), Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9), Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component

Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0), Dec-1-ene, trimers, hydrogenated (157707-86-3), Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Mineral base oil, severely refined (N/A), Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Comments : Composition/ Information on ingredients:

Mixture of hydrocarbons

Polymers Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (see note [***], see note [****]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	60 – 70	Not classified
Dec-1-ene, trimers, hydrogenated	CAS-No.: 157707-86-3 EC-No.: 500-393-3 REACH-no: 01-2119493949- 12-0000	10 - 15	Asp. Tox. 1, H304
Distillates (petroleum), solvent-refined light paraffinic (see note [**], see note [***]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375- 34	1 - 5	Asp. Tox. 1, H304
Mineral base oil, severely refined (For identification of the substance, see note [*], see note [***]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: N/A EC-No.: N/A	1 - 5	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated heavy naphtenic (see note [**], see note [***]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 REACH-no: 01-2119467170-	1 - 5	Not classified
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) (Additive)	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	0,5 - 0,9	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
C16-18-(even numbered, saturated and unsaturated)-alkylamines (Additive)	CAS-No.: 1213789-63-9 EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	0.2 – 0.4	Acute Tox. 4 (Oral), H302 (ATE=1689 mg/kg bodyweight) Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) (Additive)	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	(9.39 < C ≤ 100) Skin Sens. 1B; H317 (50 < C ≤ 100) Eye Irrit. 2; H319

Comments

: [*] 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; CAS 64742-56-9/EC 265-159-2/ REACH Reg. # 01-2119480132-48-xxxx.

All these substances have a value < 3% wt of DMSO extract, according to IP 346 (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. 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)

Note [****]:

this product may be formulated with one or more of the following base oils: CAS: 64742-54-7, EC 265-157-1, REACH Reg. 01-2119484627-25-0033/ CAS: 74869-22-0, EC: 278-012-2 REACH Reg. 01-2119495601-36

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

SECTION 4: First aid measures

First-aid measures after ingestion

Symptoms/effects after eye contact

Symptoms/effects after ingestion

4.	n. Descrip	tion of first aid measure	S	

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 burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by

doctor's advice.
First-aid measures after eye contact : Remove 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 burns, cool affected part with cold

running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by doctor's advice.

doctor's advice.

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

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, due to a defatting effect. May cause an allergic skin reaction. Contact with hot product may cause thermal burns.

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

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

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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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable 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).

: Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use $\frac{1}{2}$

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 air. Vapours are heavier

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

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases. Oxygenated compounds (aldehydes, etc.). POx.

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 : Wear personal protection equipment. (see chapter 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

contacts. Avoid direct contact with released material. Keep upwind.

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

so (e.g. electricity, sparks, fires, flares). Avoid accidental sprays on hot surfaces or electrical

emergency.

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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 (AX), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Emergency procedures

: If required, notify relevant authorities according to all applicable 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.

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. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate cleanup, and check the atmosphere for oxygen content and flammability.

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.

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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/areas should be designed with adequate bunds 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, according to the specific

use conditions.

Germany

Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids

Switzerland

Storage class (LK) : LK 10/12 - Liquids

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Distillates (petroleum), solvent-refined light paraffinic (64742-53-6)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Denmark - Occupational Exposure Limits		
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Netherlands - Occupational Exposure Limits		
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

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Distillates (petroleum), solvent-refined light pa	araffinic (64742-53-6)		
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Mineral base oil, severely refined (N/A)			
Austria - Occupational Exposure Limits			
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Belgium - Occupational Exposure Limits			
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Denmark - Occupational Exposure Limits			
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Hungary - Occupational Exposure Limits			
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Netherlands - Occupational Exposure Limits			
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5)			
Austria - Occupational Exposure Limits			
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Belgium - Occupational Exposure Limits			
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Denmark - Occupational Exposure Limits			
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Hungary - Occupational Exposure Limits	Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		

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Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5)		
Netherlands - Occupational Exposure Limits		
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Denmark - Occupational Exposure Limits		
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Netherlands - Occupational Exposure Limits		
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

USA - ACGIH -	Occupational	Exposure	Limits
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ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

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.

DNEL and PNEC

DNEL and PNEC		
Eni Rotra FE 75W-80		
DNEL/DMEL (additional information)		
Additional information	Not applicable	
PNEC (additional information)		
Additional information	Not applicable	
Distillates (petroleum), solvent-refined light	paraffinic (64742-53-6)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.73 mg/m³	
Long-term - local effects, inhalation	5.58 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day	
Long-term - local effects, inhalation	1.19 mg/m³	
Long-term - local effects, inhalation Mineral base oil, severely refined (N/A)	1.19 mg/m³	
	1.19 mg/m³	
Mineral base oil, severely refined (N/A)	1.19 mg/m³ = 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers)		
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation		
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population)	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - local effects, inhalation	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - local effects, inhalation Distillates (petroleum), hydrotreated heavy	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - local effects, inhalation Distillates (petroleum), hydrotreated heavy of the population of the petroleum of the	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) naphtenic (64742-52-5)	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - local effects, inhalation Distillates (petroleum), hydrotreated heavy DNEL/DMEL (Workers) Long-term - systemic effects, dermal	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) naphtenic (64742-52-5) 0.97 mg/kg bodyweight/day	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - local effects, inhalation Distillates (petroleum), hydrotreated heavy of the period of the	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) naphtenic (64742-52-5) 0.97 mg/kg bodyweight/day 2.73 mg/m³	
Mineral base oil, severely refined (N/A) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - local effects, inhalation Distillates (petroleum), hydrotreated heavy of the petroleum of the	= 5.4 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) = 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) naphtenic (64742-52-5) 0.97 mg/kg bodyweight/day 2.73 mg/m³	

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Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5)		
PNEC (Oral)		
PNEC oral (secondary poisoning)	9.33 mg/kg food	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		
DNEL/DMEL (Workers)		
Acute - local effects, dermal	160 μg/cm²	
Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day	
Long-term - local effects, dermal	160 μg/cm²	
Long-term - systemic effects, inhalation	4.28 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, dermal	160 μg/cm²	
Long-term - systemic effects,oral	0.25 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1.09 mg/m³	
Long-term - systemic effects, dermal	6.25 mg/kg bodyweight/day	
Long-term - local effects, dermal	160 μg/cm²	
PNEC (Water)		
PNEC aqua (freshwater)	2.4 μg/l	
PNEC aqua (marine water)	0.24 μg/l	
PNEC aqua (intermittent, freshwater)	150 μg/l	
PNEC aqua (intermittent, marine water)	15 μg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	12.9 µg/kg dw	
PNEC sediment (marine water)	1.29 µg/kg dw	
PNEC (Soil)		
PNEC soil	1.17 µg/kg dw	
PNEC (Oral)		
PNEC oral (secondary poisoning)	10 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	24.33 mg/l	
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	1 mg/m³	
Long-term - systemic effects, dermal	0.09 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.38 mg/m³	
Long-term - local effects, inhalation	1 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	40 μg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.035 mg/m³	

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C16-18-(even numbered, saturated and	unsaturated)-alkylamines (1213789-63-9)
PNEC (Water)	
PNEC aqua (freshwater)	0.26 μg/l
PNEC aqua (marine water)	0.026 μg/l
PNEC aqua (intermittent, freshwater)	1.6 μg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.76 mg/kg dwt
PNEC sediment (marine water)	0.376 mg/kg dwt
PNEC (Soil)	
PNEC soil	10 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.22 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	550 μg/l
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

8.2. Exposure controls

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. See also Section 16, "Other information".

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.

Personal protection equipment

Personal protective equipment (for industrial or professional use):

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

Personal protective equipment symbol(s):









Eye and face protection

Eye protection:

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

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

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Hand protection:

When there is a risk of contact with the skin, use waterproof gloves, resistant to chemical products. Gloves must be felt-lined. 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.

Respiratory protection

Respiratory protection:

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 dusts. (EN 136/140/145). Combined gas/dust mask with filter type: EN 14387. Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145)

Thermal hazards

Thermal hazard protection:

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

Environmental exposure controls

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:

No special requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Amber.

Appearance : Liquid, bright & clear.
Odour : Characteristics.

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

Melting point : Not applicable Freezing point : Not determined : -45 °C (ASTM D5950) Softening point : ≥ 200 (ASTM D1160) Boiling point Flammability : Not flammable Lower explosion limit : Not determined Upper explosion limit : Not determined Flash point 215 °C (ASTM D 92) Auto-ignition temperature : Not determined Decomposition temperature : Not determined

pH : Lack of data (on mixture / components of the mixture) - Data not available

Viscosity, kinematic : 54 mm²/s (40 °C) (ASTM D 445)
Viscosity, dynamic : 75000 mPa·s (-40 °C, ASTM D2983)
Solubility : Water: Immiscible and insoluble
Log Kow : Not applicable for mixtures
Log Pow : Not applicable for mixtures

Vapour pressure : Not determined Vapour pressure at 50°C : Not determined

Density : 875 kg/m³ (15°C) (ASTM D 4052)

Relative density : Not determined
Relative vapour density at 20°C : Not determined
Particle characteristics : Not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosion limits : $\geq 45 \text{ g/m}^3 \text{ (Aerosol)}$

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Other safety characteristics

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.

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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met; Conclusive
	but not sufficient for classification)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met; Conclusive
	but not sufficient for classification)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met; Conclusive
	but not sufficient for classification)
	the state of the s

	(according to composition)		
Dec-1-ene, trimers, hydrogenated (157707-86-3)			
LD50 oral rat	> 2000 mg/kg (OECD 401-423)		
Distillates (petroleum), solvent-refined light paraffinic (64742-53-6)			
LD50 oral rat	> 5000 mg/kg bodyweight		
LD50 dermal rat	> 5000 mg/kg bodyweight		
LD50 dermal rabbit	2000 – 5000 mg/kg bodyweight		
LC50 Inhalation - Rat	> 5 mg/l/4h		
Mineral base oil, severely refined (N/A)			
LD50 oral rat	≥ 5000 mg/kg bodyweight (OECD 401)		
LD50 dermal rat	≥ 5000 mg/kg bodyweight (OECD 402)		
Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5)			
LD50 oral rat	> 5000 mg/kg (OECD 401)		
LD50 dermal rabbit 2000 – 5000 mg/kg bodyweight (OECD 402)			

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Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5)			
LC50 Inhalation - Rat	2.18 - 5.53 mg/l/4h (OECD 403)		
Reaction products of bis(4-methylpentan-2-yljamines, C12-14-alkyl (branched)	dithiophosphoric acid with phosphorus oxide, propylene oxide and		
LD50 oral rat	≈ 2000 mg/kg bodyweight		
C16-18-(even numbered, saturated and unsatu	urated)-alkylamines (1213789-63-9)		
LD50 oral rat	1689 mg/kg bodyweight (OECD 401)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LD50 dermal rabbit	2000 mg/kg bodyweight		
hydrocarbons obtained by removal of normal			
LD50 oral rat	> 5000 mg/kg (API 1982, UBTL 1983 - OECD 401)		
LD50 dermal rabbit	2000 – 5000 mg/kg bodyweight (API 1982, UBTL 1984 - OECD 402)		
LC50 Inhalation - Rat	3.9 – 5.3 mg/l/4h (Bio-Research Laboratories, Ltd. 1984 - OECD 403)		
	Not classified (Based on available data, the classification criteria are not met) pH: Lack of data (on mixture / components of the mixture) - Data not available		
	(according to composition)		
Mineral base oil, severely refined (N/A)			
рН	Not applicable		
Distillates (petroleum), hydrotreated heavy na	phtenic (64742-52-5)		
рН	Not applicable		
C16-18-(even numbered, saturated and unsatu	urated)-alkylamines (1213789-63-9)		
рН	11.7 Temp.: 20 °C		
hydrocarbons obtained by removal of normal	y paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
pH	Not applicable		
Additional information :	Not classified (Based on available data, the classification criteria are not met) pH: Lack of data (on mixture / components of the mixture) - Data not available (according to composition) This product contains components with a Specific Concentration Limit (SCL).		
Mineral base oil, severely refined (N/A)			
рН	Not applicable		
Distillates (petroleum), hydrotreated heavy na	phtenic (64742-52-5)		
рН	Not applicable		
C16-18-(even numbered, saturated and unsatu	urated)-alkylamines (1213789-63-9)		
	11.7 Temp.: 20 °C		

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)				
pH Not applicable				
Additional information : Germ cell mutagenicity : Additional information : Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met) (according to composition) Not classified (Based on available data, the classification criteria are not met) (according to composition) Not classified (Based on available data, the classification criteria are not met) (according to composition) All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract,			
Reproductive toxicity : Additional information : STOT-single exposure : Additional information :	according to IP 346 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3) Not classified (Based on available data, the classification criteria are not met) (according to composition) Not classified (Based on available data, the classification criteria are not met) (according to composition)			
C16-18-(even numbered, saturated and unsatu				
STOT reported exposure	May cause respiratory irritation.			
·	Not classified (Based on available data, the classification criteria are not met) (according to composition)			
Distillates (petroleum), solvent-refined light p	araffinic (64742-53-6)			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day			
NOAEL (dermal, rat/rabbit, 90 days)	30 – 2000 mg/kg bodyweight/day			
NOAEC (inhalation,rat, vapour, 90 days)	980 mg/m³			
Mineral base oil, severely refined (N/A)				
LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day (OECD TG 408)				
Distillates (petroleum), hydrotreated heavy na	phtenic (64742-52-5)			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (OECD TG 408)			
NOAEL (dermal, rat/rabbit, 90 days)	30 – 2000 mg/kg bodyweight/day			
NOAEC (inhalation,rat, vapour, 90 days)	980 mg/m³			
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
NOAEL (subacute, oral, animal/male, 28 days) 150 mg/kg bodyweight				
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat			
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)				
NOAEL (oral, rat, 90 days)	3.25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)				
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)			
LOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day			
NOAEL (oral, rat, 90 days)	< 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)			

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Additional information (according to composition) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445) Eni Rotra FE 75W-80 Viscosity, kinematic 54 mm²/s (40 °C) (ASTM D 445) Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic 17.4 mm²/s (40 °C) Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)				
Laboratory 1983 - OECD 410) NOAEC (inhalation,rat, vapour, 90 days) 220 – 980 mg/m² (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412) Aspiration hazard 3 Not classified (Based on available data, the classification criteria are not met) 3 (according to composition) 3 Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445) Eni Rotra FE 75W-80 Viscosity, kinematic 54 mm²/s (40 °C) (ASTM D 445) Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic 17.4 mm²/s (40 °C) Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic > 21 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbo	paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a		
Aspiration hazard Additional information Society, kinematic: > 20.5 mm²/s (40 °C) (ASTM D 445) Eni Rotra FE 75W-80 Viscosity, kinematic: > 20.5 mm²/s (40 °C) (ASTM D 445) Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic: > 20.5 mm²/s (40 °C) (ASTM D 445) Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic 17.4 mm²/s (40 °C) Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic > 21 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	NOAEL (dermal, rat/rabbit, 90 days)			
Additional information (according to composition) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445) Eni Rotra FE 75W-80 Viscosity, kinematic 54 mm²/s (40 °C) (ASTM D 445) Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic 17.4 mm²/s (40 °C) Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	NOAEC (inhalation,rat, vapour, 90 days)			
Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445) Eni Rotra FE 75W-80 Viscosity, kinematic	Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)		
Eni Rotra FE 75W-80 Viscosity, kinematic 54 mm²/s (40 °C) (ASTM D 445) Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic 17.4 mm²/s (40 °C) Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		· · ·		
Viscosity, kinematic Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic 17.4 mm²/s (40 °C) Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)		
Dec-1-ene, trimers, hydrogenated (157707-86-3) Viscosity, kinematic Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Eni Rotra FE 75W-80			
Viscosity, kinematic Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Viscosity, kinematic	54 mm²/s (40 °C) (ASTM D 445)		
Distillates (petroleum), solvent-refined light paraffinic (64742-53-6) Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Dec-1-ene, trimers, hydrogenated (157707-86-	3)		
Viscosity, kinematic < 20.5 mm²/s Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Viscosity, kinematic	17.4 mm²/s (40°C)		
Mineral base oil, severely refined (N/A) Viscosity, kinematic > 21 mm²/s Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Distillates (petroleum), solvent-refined light paraffinic (64742-53-6)			
Viscosity, kinematic Pyes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Viscosity, kinematic	< 20.5 mm²/s		
Hydrocarbon Yes Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Mineral base oil, severely refined (N/A)			
Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5) Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Viscosity, kinematic	> 21 mm²/s		
Viscosity, kinematic 9 mm²/s (40 °C) (ASTM D 445) C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Hydrocarbon	Yes		
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Distillates (petroleum), hydrotreated heavy na	phtenic (64742-52-5)		
Viscosity, kinematic 5.245 mm²/s Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Viscosity, kinematic	9 mm²/s (40 °C) (ASTM D 445)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)			
hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	Viscosity, kinematic	5.245 mm²/s		
Viscosity kinematic 30 – 32 mm²/s (40 °C) (ASTM D 445)	hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbo	paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a		
Viscosity, Kilichiado 30 – 32 mili 73 (40 °C) (ACTIVID 440)	Viscosity, kinematic	30 – 32 mm²/s (40 °C) (ASTM D 445)		

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Other information

Potential adverse human health effects and symptoms

Other information

: Contact with eyes may cause temporary reddening and irritation, Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, May produce an allergic reaction, Avoid all eye and skin contact and do not breathe vapour and mist

: None

Safety Data Sheet

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SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.
Ecology - air	: This product has a low vapour pressure, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists.
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)
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.

(chronic)				
Dec-1-ene, trimers, hydrogenated (157707	-86-3)			
LC50 fish 1	≥ 1000 mg/l (96h, Oncorhynchus mykiss)			
EC50 Daphnia 1	≥ 1000 mg/l (48 h)			
EC50 72h - Algae [1]	> 1000 mg/l			
ErC50 (algae)	≥ 1000 mg/l (72 h, Scenedesmus capricornutum)			
NOEC (chronic)	125 mg/l (21 d, Daphnia magna)			
NOEC chronic crustacea	125 mg/l (21d, NOELR WAF)			
Distillates (petroleum), hydrotreated light	naphthenic (64742-53-6)			
LC50 fish 1	> 100 mg/l (Pimephales promelas)			
LC50 other aquatic organisms 1	> 10 g/l (LL50)			
EC50 Daphnia 1	> 10 g/l			
NOEC chronic fish	> 5000 mg/l (7d)			
NOEC chronic crustacea	> 1000 mg/l (21d)			
Mineral base oil, severely refined (N/A)				
LC50 fish 1	> 100 mg/l (LL 50)			
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)			
Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5)				
LC50 fish 1	> 100 mg/l (LL 50)			
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)			
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
LC50 fish 1	24 mg/l (Rainbow Trout)			
LC50 fish 2	8.5 mg/l (Fathead Minnow)			
EC50 Daphnia 1	91.4 mg/l			
EC50 96h - Algae [1]	6.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 96h - Algae [2]	15 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
NOEC (acute)	1.7 – 3.3			

Safety Data Sheet

Persistence and degradability

Persistence and degradability

Persistence and degradability

Mineral base oil, severely refined (N/A)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

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Reaction products of bis(4-methylpentan-2-yi) amines, C12-14-alkyl (branched)	dithiophosphoric acid with phosphorus oxide, propylene oxide and		
NOEC chronic fish	3.2 mg/l (Rainbow Trout - 4d)		
NOEC chronic crustacea	0.12 mg/l (Daphnia magna - 21 d)		
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)			
LC50 fish 1	0.84 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
LC50 fish 2	4.21 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 Daphnia 1	0.32 mg/l Test organisms (species): Daphnia magna		
EC50 Daphnia 2	0.98 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	0.46 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
EC50 72h - Algae [2]	0.38 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
LOEC (chronic)	0.032 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC (chronic)	0.013 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic crustacea	0.013 mg/l (21d)		
NOEC chronic algae	0.01 mg/l (3d)		
hydrocarbons obtained by removal of normal	y paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
LC50 fish 1	> 100 mg/l (LL 50, Exxon 1995 - OECD 203)		
EC50 Daphnia 1	> 10000 mg/l (EL50, 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)		
NOEC chronic algae	≥ 100 mg/l (Pseudokirchneriella subcapitata, 72h)		
12.2. Persistence and degradability			
Eni Rotra FE 75W-80			

particularly in anaerobic conditions.

The most significant constituents of the product should be considered as "inherently

biodegradable", but not "readily biodegradable", and they may be moderately persistent,

Inherently biodegradable.

Rapidly degradable

Safety Data Sheet

Bioaccumulative potential

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

SDS EU format according to COMMISSION REGULATION (EU	, 1515.5.5		
Distillates (petroleum), hydrotreated heavy na	aphtenic (64742-52-5)		
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.		
Reaction products of bis(4-methylpentan-2-ylamines, C12-14-alkyl (branched)	dithiophosphoric acid with phosphorus oxide, propylene oxide and		
Persistence and degradability	Rapidly degradable		
Biodegradation	3.6 – 7.4 % (28d - OECD 301 B)		
C16-18-(even numbered, saturated and unsat	urated)-alkylamines (1213789-63-9)		
Persistence and degradability	Readily biodegradable.		
Biodegradation	66 % (28d) (OECD 301B)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) 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)		
12.3. Bioaccumulative potential			
Eni Rotra FE 75W-80			
Log Pow	Not applicable for mixtures		
Log Kow	Not applicable for mixtures		
Bioaccumulative potential	Not established.		
Dec-1-ene, trimers, hydrogenated (157707-86-	3)		
Log Pow	> 10		
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)			
Log Kow	5.14 (25°C)		
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)			
Bioconcentration factor (BCF REACH)	> 500		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
predominantly of hydrocarbons having carbo	n numbers predominantly in the range of C20 through C50 and produces a		
predominantly of hydrocarbons having carbo	n numbers predominantly in the range of C20 through C50 and produces a		
predominantly of hydrocarbons having carbo finished oil with a viscosity not less than 100	n numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
predominantly of hydrocarbons having carbo finished oil with a viscosity not less than 100 BCF fish 1	n numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) 0.4 – 6280 l/kg		

The test methods for this endpoint are not applicable to UVCB substances.

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

12.4. Mobility in soil

Eni Rotra FE 75W-80

Ecology - soil No data available.

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

Log Koc	1.71 – 14.7
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.

12.5. Results of PBT and vPvB assessment

Eni Rotra FE 75W-80

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

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Dec-1-ene, trimers, hydrogenated (157707-86-3), Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Mineral base oil, severely refined (N/A), Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9), Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII

Dec-1-ene, trimers, hydrogenated (157707-86-3), Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Mineral base oil, severely refined (N/A), Distillates (petroleum), hydrotreated heavy naphtenic (64742-52-5), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9), Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : None.

Additional information : No other effects known

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

: Disposal must be done according to official regulations.

Waste treatment methods

Do not dispose of the product, either new or used, by dumping on the ground, or 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 EURAL code (EWC)

HP Code

The product as it is does not contain halogenated substances.

13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils

: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one

or more sectors of the environment

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	number			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g 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 descr	ription			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C16-18-(even numbered, saturated and unsaturated)-alkylamines; Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C16-18-(even numbered, saturated and unsaturated)-alkylamines; Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (C16-18-(even numbered, saturated and unsaturated)-alkylamines; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C16-18-(even numbered, saturated and unsaturated)-alkylamines; Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C16-18-(even numbered, saturated and unsaturated)-alkylamines; Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)), 9, III
14.3. Transport hazard	class(es)			
9	9	9	9	9

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ADR	IMDG	IATA	ADN	RID
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 EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
None.				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Not subject

Classification code (UN) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code : EAC code : •3Z

Transport by sea

Transport regulations (IMDG) : Not subject Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : LP01, P001 Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1, TP29 Stowage category (IMDG) : A

Air transport

Transport regulations (IATA) : Not subject PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964

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CAO max net quantity (IATA) : 450L

: A97, A158, A197, A215 Special provisions (IATA)

ERG code (IATA) : 9L

Inland waterway transport

Transport regulations (ADN) : Not subject

Classification code (ADN) M6

Special provisions (ADN) 274, 335, 375, 601

Limited quantities (ADN) : 5 L Excepted quantities (ADN) : E1 : PP Equipment required (ADN) Number of blue cones/lights (ADN) 0

Rail transport

Transport regulations (RID) : Not subject

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1 Mixed packing provisions (RID) : MP19 Portable tank and bulk container instructions (RID) : T4 : TP1, TP29

Portable tank and bulk container special provisions

(RID)

Tank codes for RID tanks (RID) : LGBV Transport category (RID) : 3 Special provisions for carriage – Packages (RID) : W12 Special provisions for carriage - Loading and : CW13, CW31

unloading (RID)

: CE8

Colis express (express parcels) (RID) Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

IBC code : Not applicable.

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	Reaction products of bis(4-methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); C16-18- (even numbered, saturated and unsaturated)-alkylamines	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

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Dec-1-ene, trimers, hydrogenated; Distillates (petroleum), hydrotreated light naphthenic; Mineral base oil, severely refined; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); C16-18-(even numbered, saturated and unsaturated)-alkylamines	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

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : E2.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

France

Maladies professionelles (F)		
Code	Description	
RG 36	Diseases caused by oils and fats of mineral or synthetic origin	

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.

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Water hazard class (WGK) (D)

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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 555: Working instruction and information for workers.

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

TRGS 907: List of sensitizing substances and activities with sensitizing substances.

: Not applicable.

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

: 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 (BGBI 2017, Teil I, Nr. 22, Seite

905).

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

VbF class (D)

WGK remark

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 SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : No

: None of the components are listed

Denmark

Danish National Regulations

: Young people under 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with it

Poland

Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).

Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).

The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).

Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).

The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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

Dec-1-ene, trimers, hydrogenated

Distillates (petroleum), hydrotreated heavy naphtenic

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

C16-18-(even numbered, saturated and unsaturated)-alkylamines

SECTION 16: Other information

Indication of changes			
Section	Changed item	Comments	
	Adverse health effects caused by endocrine disrupting properties	Modified	
3	Composition/information on ingredients	Modified	
3	Comments	Modified	
11.1	Additional information	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Modified	

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
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
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Abbreviations and acronyms:		
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.

Other information

: Do not use the product for any purposes that have not been advised by the manufacturer.

Full text of H- and EUH-statements:		
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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH208	Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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.	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 2 H411 Calculation method		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.