

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 5/15/2025 Supersedes: 11/21/2024 Version: 1.1

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

1.1. Product identifier Product form : Mixture : Eni Rotra MP DB 85W-90 Trade name Product code : 1283 Type of product : Lubricants Formula : 0110-2000 Product group : Trade product 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

Emergency number

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

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. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.



CLP Signal word Hazard statements (CLP)

: H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)	 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
Lon-statements	phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.
2.3. Other hazards (not relevant for classifi	cation)
Other hazards not contributing to the classification	: This product is combustible, but not classified as Flammable. The creation of flammable

This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels. Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop.

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 $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	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 (64742-65-0)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	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 (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 (64742-65-0), 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)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Comments

: Composition/ Information on ingredients: Mixture of hydrocarbons Additives

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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	40 – 50	Not classified
Residual oils (petroleum,) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] (Component, see note [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-01-4 EC-No.: 265-101-6 EC Index-No.: 649-459-00-4 REACH-no: 01-2119488707- 21	40 - 50	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 - 2	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	0,1 - 0,9	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)

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 base oils: CAS 74869-22-0/ EC: 278-012-2/ REACH Reg. # 01-2119495601-36-XXXX; CAS 64742-54-7/ EC 265-157-1/ REACH Reg. # 01-2119484627-25-XXXX 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.

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

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove to fresh air, keep the casualty warm and at rest. If breathing is difficult, give oxygen if possible, or assisted ventilation. If necessary, give external cardiac massage and obtain medical advice. See also section 4.3.
First-aid measures after skin contact	: Remove contaminated clothing and shoes. Wash skin with soap and water. If skin irritation 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 lenses, if present and easy to do so. Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation persists, seek medical advice. 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 ingestion	: 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.
Symptoms/effects after eye contact	: Contact with eyes may cause temporary reddening and irritation. Contact with hot product or vapours may cause burns.
Symptoms/effects after ingestion	: Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances.
Symptoms/effects upon intravenous administration	: No information available.
Chronic symptoms	: None to be reported, according to the present classification criteria.

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

Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve. Seek medical attention in all cases of serious burns.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only. Other extinguishing gases (according to regulations).
Unsuitable extinguishing media	: Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.
5.2. Special hazards arising from the subst	tance 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/m ³ 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.

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5.3. Advice for firefighters	
Firefighting instructions	: Shut off source of product, if possible. If possible, move containers and drums away from the danger area, if safe to do so. 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 equ	ipment and emergency procedures	
General measures	: Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid accidental sprays on hot surfaces or electrical contacts. Avoid direct contact with released material. Keep upwind.	
For non-emergency personnel		
Protective equipment Emergency procedures	 See Section 8. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. 	
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 combined dust/organic vapour filter(s), or a Self-Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
Emergency procedures	: 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 co	intainment 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.

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6.4. Reference to other sections

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

Precautions for safe handling Handling temperature Hygjene measures	 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. This product can be handled at ambient temperatures. Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke.
	Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store in dry, well-ventilated area. Keep away from open flames, hot surfaces and sources o ignition. Do not smoke.
Incompatible products Storage area	 Strong oxidizing agents. 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)	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Residual oils (petroleum,) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] (64742-01-4)

Austria - Occupational Exposure Limits

MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
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Residual oils (petroleum,) solvent-refined; Baseoil- unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] (64742-01-4) **Belgium - Occupational Exposure Limits** OEL TWA 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) **Denmark - Occupational Exposure Limits** OFI 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), 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** OFI 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** 5 mg/m3 (Mineral base oil mist, severely refined, DMSO extract <3% m/m) AK (OEL TWA) **Netherlands - Occupational Exposure Limits** MAC TGG 8h (mg/m³) 5 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)

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)	

Recommended monitoring procedures

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

Eni Rotra MP DB 85W-90	
DNEL/DMEL (additional information)	
Additional information	Not applicable
PNEC (additional information)	
Additional information	Not applicable
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/m ³
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

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Reaction products of bis(4-methylpentan-2-y amines, C12-14-alkyl (branched)	l)dithiophosphoric acid with phosphorus oxide, propylene oxide and	
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/m ³	
Long-term - systemic effects, dermal	0.09 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.38 mg/m ³	
Long-term - local effects, inhalation	1 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	40 μg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.035 mg/m ³	
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	

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DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.73 mg/m ³
Long-term - local effects, inhalation	5.58 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day
PNEC (Oral)	
PNEC oral (secondary poisoning)	9.33 mg/kg food
PNEC (additional information)	
Additional information	Not derived - Not classified as hazardous for environment
Note :	The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

8.2. Exposure controls

Appropriate engineering controls

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".

Personal protection equipment

Personal protective equipment (for industrial or professional use):

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

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

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 organic vapours. (EN 136/140/145). Combination filter device (DIN EN 141). Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145)

Thermal hazards

Thermal hazard protection:

None in normal use conditions.

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	: Yellow-brown.
Appearance	: Liquid, bright & clear.
Odour	: Characteristics.
Odour threshold	: Not available
Melting point	: -24 °C (pour point) (ASTM D 97)
Freezing point	: Not determined
Boiling point	: Not determined
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	: Not available
Viscosity, kinematic	: 180 mm²/s (40 °C) (ASTM D 445)
Solubility	: Water: Immiscible and insoluble
Log Kow	: Not applicable for mixtures
Log Pow	: Not applicable for mixtures
Vapour pressure	: 0.1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Vapour pressure at 50°C	: Not determined
Density	: 905 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

: ≥ 45 g/m³ (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. Avoid the build-up of electrostatic charge.

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		
	Not classified (Based on available data, the classification criteria are not met; Conclusive but not sufficient for classification)	
,	Not classified (Based on available data, the classification criteria are not met; Conclusive but not sufficient for classification)	
	Not classified (Based on available data, the classification criteria are not met; Conclusive but not sufficient for classification)	
Additional information :	(according to composition)	
Residual oils (petroleum,) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] (64742-01-4)		
LD50 oral rat	> 5000 mg/kg (OECD 401)	
LD50 dermal rat	> 5000 mg/kg (OECD 402)	
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403)	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		
LD50 oral rat	≈ 2000 mg/kg bodyweight	
C16-18-(even numbered, saturated and unsaturated)-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	

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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)		
LD50 oral rat	> 5000 mg/kg bodyweight Not determined	
Skin corrosion/irritation : Additional information :	 Not classified (Based on available data, the classification criteria are not met) (according to composition) 	
the solvent insoluble fraction from solvent re	aseoil— unspecified; [A complex combination by hydrocarbons obtained as efining of a residuum using a polar organic solvent such as phenol or carbon numbers predominantly higher than C25 and boiling above	
рН	Not applicable	
C16-18-(even numbered, saturated and unsa	turated)-alkylamines (1213789-63-9)	
рН	11.7 Temp.: 20 °C	
hydrocarbons obtained by removal of norma predominantly of hydrocarbons having carb	avy paraffinic; Baseoil— unspecified; [A complex combination of al paraffins from a petroleum fraction by solvent crystallization. It consists on numbers predominantly in the range of C20 through C50 and produces a 0 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	
рН	Not applicable	
Serious eye damage/irritation : Additional information :	Not classified (Based on available data, the classification criteria are not met) (according to composition)	
the solvent insoluble fraction from solvent re	aseoil— unspecified; [A complex combination by hydrocarbons obtained as efining of a residuum using a polar organic solvent such as phenol or carbon numbers predominantly higher than C25 and boiling above	
рН	Not applicable	
C16-18-(even numbered, saturated and unsa	turated)-alkylamines (1213789-63-9)	
рН	11.7 Temp.: 20 °C	
hydrocarbons obtained by removal of norma predominantly of hydrocarbons having carb	avy paraffinic; Baseoil— unspecified; [A complex combination of al paraffins from a petroleum fraction by solvent crystallization. It consists on numbers predominantly in the range of C20 through C50 and produces a 0 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	
рН	Not applicable	
Respiratory or skin sensitisation : 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) Not classified (Based on available data, the classification criteria are not met) 	
Additional information : Reproductive toxicity : Additional information : STOT-single exposure : Additional information :	 (according to composition) All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, 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 unsa		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure : Additional information :	 Not classified (Based on available data, the classification criteria are not met) (according to composition) 	

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Residual oils (petroleum,) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] (64742-01-4)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (OECD TG 408)	
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 unsatu	urated)-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 Not determined	
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)	
NOAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg bodyweight Not determined	
NOAEC (inhalation,rat, vapour, 90 days)	220 – 980 mg/m³ (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412)	
	Not classified (Based on available data, the classification criteria are not met) (according to composition)	
Eni Rotra MP DB 85W-90		
Viscosity, kinematic	180 mm²/s (40 °C) (ASTM D 445)	
Residual oils (petroleum,) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] (64742-01-4)		
Viscosity, kinematic	30 – 34 mm²/s (100 °C) (ASTM D 445)	
C16-18-(even numbered, saturated and unsatu	urated)-alkylamines (1213789-63-9)	
Viscosity, kinematic	5.245 mm²/s	
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)	
Viscosity, kinematic	91 – 99 mm²/s (40 °C) (ASTM D 445)	

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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 None

SECTION 12: Ecological information	
12.1. Toxicity	
	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.
	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)
(acute)	Not classified (Based on available data, the classification criteria are not met) Toxic to aquatic life with long lasting effects.
Residual oils (petroleum,) solvent-refined, Ba	seoil - unspecified (64742-01-4)
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
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)

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C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)		
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)	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (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 MP DB 85W-90		
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.	
Residual oils (petroleum,) solvent-refined, Ba	seoil - unspecified (64742-01-4)	
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-yl amines, 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 unsaturated)-alkylamines (1213789-63-9)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	66 % (28d) (OECD 301B)	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (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 MP DB 85W-90	
Log Pow	Not applicable for mixtures
Log Kow	Not applicable for mixtures
Bioaccumulative potential	Not established.

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Reaction products of bis(4-methylpentan-2-y	l)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 hea	vy paraffinic (64742-65-0)	
BCF fish 1	0.4 – 6280 l/kg	
BCF fish 2	3.16 – 71100 l/kg	
Log Pow	1.99 – 18.02	
Log Kow	Not applicable (UVCB)	
Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.	
12.4. Mobility in soil		
Eni Rotra MP DB 85W-90		
Mobility in soil	Not determined	
Ecology - soil	No data available.	
Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (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		
12.5. Results of PBT and vPvB assessment Eni Rotra MP DB 85W-90		
	a of REACH regulation, annex XIII	
Eni Rotra MP DB 85W-90		
Eni Rotra MP DB 85W-90 This substance/mixture does not meet the PBT criteria		
Eni Rotra MP DB 85W-90 This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criter		
Eni Rotra MP DB 85W-90 This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteri Component Substance(s) not meeting the PBT criteria of REACH	a of REACH regulation, annex XIII 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 (64742-65-0)	
Eni Rotra MP DB 85W-90 This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteria Component Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	a of REACH regulation, annex XIII 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 (64742-65-0) 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-	
Eni Rotra MP DB 85W-90 This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteri Component Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	a of REACH regulation, annex XIII 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 (64742-65-0) 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 (64742-65-0) The mixture does not contain substance(s) included in the list established in accordance	
Eni Rotra MP DB 85W-90 This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteria Component Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	a of REACH regulation, annex XIII 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 (64742-65-0) 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 (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)	

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SECTION 13: Disposal considerations	5
13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods	 Disposal must be done according to official regulations. 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 HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber	1		1
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	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (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), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (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), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (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), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (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), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction products of bis(4-methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) ; C16-18-(ever numbered, saturated and unsaturated)-alkylamines) 9, III
14.3. Transport hazard o	class(es)			
9	9	9	9	9

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards		-	
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

14.0. Special precautions for user	
Overland transport	
Transport regulations (ADR)	: Subject to the provisions
Classification code (UN)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	P001, IBC03, LP01, R001
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
	2002
	3082
Tunnel restriction code	: -
EAC code	: •3Z
Transport by sea	
Transport regulations (IMDG)	: Subject to the provisions
Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
Stowage category (IMDG)	: A
Air transport	
Air transport	. Subject to the provisions
Transport regulations (IATA)	: Subject to the provisions
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
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215

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ERG code (IATA)	:	9L
Inland waterway transport		
Transport regulations (ADN)	:	Subject to the provisions
Classification code (ADN)	:	M6
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0
Rail transport		
Transport regulations (RID)	:	Subject to the provisions
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
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions	:	TP1, TP29
(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)		
Colis express (express parcels) (RID)	:	CE8
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)	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.
National Rules and Recomm	nendations	 TRGS 900: Occupational Exposure Limits. TRGS 800: Fire protection measures. TRGS 555: Working instruction and information for workers. TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure. TRGS 401: Risks resulting from skin contact - identification, assessment, measures. TRGS 400: Hazard assessment for activities involving Hazardous Substances.
VbF class (D) Water hazard class (WGK)	(D)	 Not applicable. WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

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WGK remark	 Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS).
Major Accidents Ordinance (12. BImSchV)	: Is not subject to the Major Accidents Ordinance (12. BlmSchV)
Netherlands	
	C. Minimize discharge
Saneringsinspanningen SZW-lijst van kankerverwekkende stoffen	: C - Minimize discharge : 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 – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: 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
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 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 o
	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. 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. o
	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 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

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

Residual oils (petroleum,) solvent-refined, Baseoil - unspecified

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	
3	Composition/information on ingredients	Modified
3.2	Comments	Modified
4.3	Other medical advice or treatment	Modified

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Indication of changes			
Section	Changed item	Comments	
5.2	Hazardous decomposition products in case of fire	Modified	
7.1	Precautions for safe handling	Modified	
8.2	Respiratory protection Modified		
8.2	Appropriate engineering controls Modified		
9	Flammability (solid, gas) Added		
9	Vapour pressure at 50°C	Added	
9	Freezing point	Added	
9	Relative vapour density at 20°C	Added	
9	Relative density	Added	
9	Boiling point	Added	
9	Auto-ignition temperature	Added	
9	Upper explosive limit (UEL)	Added	
9	Lower explosive limit (LEL)	Added	
9	Flammability (solid, gas)	Removed	
9	Oxidising properties Removed		
9	Explosive properties	Removed	
9.1	Decomposition temperature	Added	
10.6	Hazardous decomposition products	Modified	
11.1	Additional information Modified		
11.1	Additional information	Modified	
16	Other information	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		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		

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Abbreviations and acronyms:			
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		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006		
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
vPvB	Very Persistent and Very Bioaccumulative		

Data sources

Training advice

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

Other information

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

Aquatic Acute 1HazardouAquatic Chronic 1HazardouAquatic Chronic 2HazardouAquatic Chronic 2HazardouAsp. Tox. 1AspirationEUH208Contains and amin	xicity (oral), Category 4 us to the aquatic environment – Acute Hazard, Category 1 us to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 1 Hazardou Aquatic Chronic 2 Hazardou Asp. Tox. 1 Aspiration EUH208 Contains and amin	us to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 2 Hazardou Asp. Tox. 1 Aspiration EUH208 Contains and amin			
Asp. Tox. 1 Aspiration EUH208 Contains and amin	us to the aquatic environment – Chronic Hazard, Category 2		
EUH208 Contains and amin	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
and amin	Aspiration hazard, Category 1		
Eye Irrit. 2 Serious e	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.		
	Serious eye damage/eye irritation, Category 2		
H302 Harmful i	Harmful if swallowed.		
H304 May be fa	May be fatal if swallowed and enters airways.		
H314 Causes s	Causes severe skin burns and eye damage.		
H317 May caus	May cause an allergic skin reaction.		
H319 Causes s	Causes serious eye irritation.		
H335 May caus	May cause respiratory irritation.		
H373 May caus	May cause damage to organs through prolonged or repeated exposure.		
H400 Very toxi	Very toxic to aquatic life.		
H410 Very toxi	Very toxic to aquatic life with long lasting effects.		
H411 Toxic to a	Toxic to aquatic life with long lasting effects.		
Skin Corr. 1B Skin corr			
Skin Sens. 1B Skin sens	rosion/irritation, Category 1, Sub-Category 1B		

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Full text of H- and EUH-statements:				
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		

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.