

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 10/11/2022 Supersedes: 03/05/2022 Version: 6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product form	: Mixture
Trade name	: Eni OSO S 46
Product code	: 7424
Type of product	: Lubricants
Formula	: 0026-2007
Product group	: Trade product
1.2.1. Relevant identified uses	
Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: Wide dispersive use
	Used in closed systems
Use of the substance/mixture	: Hydraulic fluid
	Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category	: Hydraulic fluids and additives
1.2.2. Uses advised against	
No additional information available	

1.3. Details of the supplier of the safety data sheet

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

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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, Category 3 H412

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

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

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

CLP Signal word

Safety Data Sheet

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

 H412 - Harmful to aquatic life with long lasting effects. P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards (not relevant for classification)

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/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

Component	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	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
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	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
Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl	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
2,6-Di-tert-butylphenol (128-39-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The 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 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 at a concentration equal to or greater than 0,1 %

Component	
Distillates (petroleum), solvent-dewaxed heavy paraffinic(64742-65-0)	The substance is 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)	The substance is 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
Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl	The substance is 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
2,6-Di-tert-butylphenol(128-39-2)	The substance is 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffinic 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
Distillates (petroleum), solvent-dewaxed heavy paraffinic (see note [**])	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	60 - 95	Not classified
Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl (Additive)	EC-No.: 943-540-0 REACH-no: 01-2120120371- 74	0,1 - 0,9	Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Sens. 1B, H317
2,6-Di-tert-butylphenol (Additive)	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	0,1 - 0,2	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl (Additive)	EC-No.: 943-540-0 REACH-no: 01-2120120371- 74	(13 <c 100)="" 1b,="" h317<="" sens.="" skin="" td="" ≤=""></c>

Notes

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

CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx; CAS 64742-65-0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx; CAS 64742-56-9/EC 2265-159-2/ 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.

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: In case of disturbances owing to inhalation of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention.
First-aid measures after skin contact	: Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. Body hypothermia must be avoided. Do not put ice on the burn.

Safety Data Sheet

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

First-aid measures after eye contact First-aid measures after ingestion	 Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. Do not induce vomiting to avoid aspiration into the lungs. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital. If the casualty is inconscious, place in the recovery position. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms / injuries (general indications) Symptoms/effects after inhalation	 Not expected to present a significant hazard under anticipated conditions of normal use. 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. In these cases overexposure to vapours may cause irritation to airways, nausea and dizziness.
Symptoms/effects after skin contact	Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact. Contact with hot product may cause thermal burns.
Symptoms/effects after eye contact	: Contact with hot product or vapours may cause burns.
Symptoms/effects after ingestion	: Accidental ingestion of small quantities of the product may cause irritation, nausea and gastric disturbances. Taking into account the taste of the product, however, ingestion of dangerous quantites is very unlikely.
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. If there is any suspicion of inhalation of H2S (hydrogen sulphide). The casualty should be sent immediately to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable 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 of foam and water on the same surface is to be avoided as water destroys the foam.
5.2. Special hazards arising from the subs	stance 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 of air.
5.3. Advice for firefighters	
Firefighting instructions	: Shut off source of product, if possible. Spilled product which is not burning should be covered with sand or foam. If possible, move containers and drums away from danger area. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.
Special protective equipment for firefighters	: Personal protection equipment for firefighters (see also sect. 8). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659.
Other information	: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

Safety Data Sheet

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

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipme	ent and emergency procedures
General measures :	Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid accidental sprays on hot surfaces or electrical contacts. Avoid direct contact with released material. Keep upwind.
6.1.1. For non-emergency personnel	
Protective equipment :	See Section 8.
Emergency procedures :	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.
6.1.2. For emergency responders	
Protective equipment :	Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (A) (or A+B when applicable for H2S), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
Emergency procedures :	Notify local authorities according to relevant regulations.

6.2. Environmental precautions

Do not let the product accumulate in confined or underground spaces. Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.3. Methods and material for c	ontainment 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.
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.

Safety Data Sheet

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

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. Do not use compressed air for filling, discharging, or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well-ventilated area. During transfer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build-up of electric charges. 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 clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".
Handling temperature	: This product can be handled at ambient temperatures.
Hygiene measures	: 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.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.
Incompatible products	: Keep away from: strong oxidants.
Storage temperature	: This product can be stored at ambient temperatures.
Storage area	 Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
Packages and containers:	: If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.
Packaging materials	: For containers, or container linings use materials specifically approved for use with this product. Compatibility should be checked with the manufacturer.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
8.1.1 National occupational exposure and biologica	l limit values	
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)	
Austria - Occupational Exposure Limits		
/AK (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
OEL STEL	2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

Safety Data Sheet

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

Distillates (petroleum), solvent-dewaxed heav	vy paraffinic (64742-65-0)
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) [1]	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
VLA-EC (mg/m³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
KTV (OEL STEL)	3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
WEL STEL (OEL STEL)	10 mg/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 heav	/y paraffinic (64742-65-0)
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Belgium - Occupational Exposure Limits	
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1 mg/m3 (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
OEL STEL	2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Netherlands - Occupational Exposure Limits	
MAC TGG 8h (mg/m³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
VLA-EC (mg/m³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
KTV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom - Occupational Exposure Limits	·
WEL TWA (OEL TWA) [1]	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
WEL STEL (OEL STEL)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH - Occupational Exposure Limits	·
ACGIH OEL TWA	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
ACGIH OEL STEL	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

Safety Data Sheet

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

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

8.1.3. Air contaminants formed No additional information available

8.1.4. DNEL and PNEC

Eni OSO S 46	
DNEL/DMEL (additional information)	
Additional information	Not applicable
PNEC (additional information)	
Additional information	Not applicable
Reaction Products of Diphosphorus Pentaoxi	de with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl
DNEL/DMEL (Workers)	
Long-term - local effects, dermal	199,8 µg/cm ²
DNEL/DMEL (General population)	
Long-term - local effects, dermal	199,8 µg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0,75 µg/l
PNEC aqua (marine water)	0,075 µg/l
PNEC aqua (intermittent, freshwater)	7,5 μg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	4,8 mg/kg dwt
PNEC sediment (marine water)	0,48 mg/kg dwt
PNEC (Soil)	
PNEC soil	7,09 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	7,4 mg/l
2,6-Di-tert-butylphenol (128-39-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	11,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70,61 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	6,75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	20,9 mg/m ³
Long-term - systemic effects, dermal	6,75 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,0007 mg/l
PNEC aqua (marine water)	0,0007 mg/l

Safety Data Sheet

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

2,6-Di-tert-butylphenol (128-39-2)	
PNEC aqua (intermittent, freshwater)	0,0045 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,317 mg/kg dwt
PNEC sediment (marine water)	0,0317 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,697 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	60 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)
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/m³
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

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

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.

8.2.2. Personal protection equipment

Personal protective equipment (for industrial or professional use):

Gloves. Safety glasses.

Safety Data Sheet

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

Personal protective equipment symbol(s):



8.2.2.1. 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.

8.2.2.2. Skin protection

Skin and body protection:

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

Hand protection:

Protective gloves. Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.

8.2.2.3. 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: in presence of oil mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols. In case there is a significant presence of vapours (e.g. through handling at high temperature), use full or half-face masks with filter for hydrocarbon vapours. (EN 136/140/145). Combination filter device (DIN EN 141). Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145). Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H2S) or self-contained breathing apparatus (SCBA). (EN 136/140/145)

8.2.2.4. Thermal hazards

Thermal hazard protection:

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

8.2.3. Environmental exposure controls

Environmental exposure controls:

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

Consumer exposure controls:

Not applicable.

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.
Molecular mass :	Not applicable for mixtures
Odour :	Slight odour of petroleum.
Odour threshold :	There are no data available on the preparation/mixture itself.
Melting point :	-27 °C (pour point) (ASTM D 97)
Freezing point :	Not determined
Boiling point :	Not determined
Flammability :	Not flammable
Explosive properties :	None (according to composition).
Oxidising properties :	None (according to composition).

Safety Data Sheet

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Explosive limits	$\geq 45 \text{ g/m}^3$ (Aerosol)
•	
Lower explosion limit	: > 45 g/m ³ (Aerosol)
Upper explosion limit	: Not determined
Flash point	: 227 °C (ASTM D 92)
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
рН	: Not applicable.
Viscosity, kinematic	: 46 mm²/s (40 °C) (ASTM D 445)
Viscosity, dynamic	: Not determined
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
Critical pressure	: Not applicable for mixtures
Density	: 881 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	

9.2.1. Information with regard to physical hazard	l classes
Explosion limits	: ≥ 45 g/m ³ (Aerosol)
Critical temperature	: Not applicable for mixtures
9.2.2. Other safety characteristics	
Relative evaporation rate (butylacetate=1)	: Negligible.
Additional information	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling). Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. 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 generates : Toxic fumes. In exceptional cases (i.e prolonged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. See also Section 16, "Other information".

SECTION 11: Toxicological information

11.1. Information on 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)

Safety Data Sheet

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

	5,225,672
Acute toxicity (inhalation) :	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) (according to composition)
	de with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl
LD50 oral rat	2000 – 5000 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight
2,6-Di-tert-butylphenol (128-39-2)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 0,5 ml/kg
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)
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)
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable.
Additional information :	(according to composition)
Serious eye damage/irritation :	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable.
Additional information :	(according to composition)
Respiratory or skin sensitisation : Additional information :	Not classified (Based on available data, the classification criteria are not met) (according to composition)
	This product contains components with a Specific Concentration Limit (SCL).
Germ cell mutagenicity : Additional information :	Not classified (Based on available data, the classification criteria are not met) (according to composition)
Carcinogenicity : Additional information :	Not classified (Based on available data, the classification criteria are not met)
Additional information .	(according to composition) This product contains : Distillates (petroleum), solvent-dewaxed heavy paraffinic 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. 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)
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)
Additional information:STOT-single exposure:	(according to composition) Not classified (Based on available data, the classification criteria are not met)
Additional information :	(according to composition)
STOT-repeated exposure : Additional information :	Not classified (Based on available data, the classification criteria are not met) (according to composition)
2,6-Di-tert-butylphenol (128-39-2)	
NOAEL (subacute, oral, animal/male, 28 days)	> 100 mg/kg bodyweight (100 mg / d)
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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)

Safety Data Sheet

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OAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose
	Dermal Toxicity: 21/28-Day Study)
OAEC (inhalation,rat, vapour, 90 days)	220 – 980 mg/m ³ (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412)
istillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)
DAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)
DAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day
OAEL (oral, rat, 90 days)	< 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)
OAEL (dermal, rat/rabbit, 90 days)	1000 – 2000 mg/kg bodyweight/day (API 1982, Mobil Environmental and Health Science Laboratory 1983 - OECD 410)
OAEC (inhalation,rat, vapour, 90 days)	220 – 980 mg/m ³ (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412)
spiration hazard dditional information	 Not classified (Based on available data, the classification criteria are not met) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)
ni OSO S 46	
iscosity, kinematic	46 mm²/s (40 °C) (ASTM D 445)
1.2. Information on other hazards	
I.2.1. Endocrine disrupting properties	
dverse health effects caused by endocrine srupting 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 is not identified a 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 %
I.2.2. Other information	
otential adverse human health effects and mptoms	: Contact with eyes may cause temporary reddening and irritation,Prolonged and repeated skin contact may cause reddening, irritation and dermatitis,May cause sensitization by skin contact,Avoid all eye and skin contact and do not breathe vapour and mist
ther information	: None

12.1. Toxicity	
Ecology - general	An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.
Ecology - air	This product has a low vapour pressure. A significant exposure may happen only if the product is used at high temperature, or in case of sprays and mists.
Ecology - water	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
Hazardous to the aquatic environment, long-term : (chronic)	Harmful to aquatic life with long lasting effects.
Reaction Products of Diphosphorus Pentaox	ide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl
LC50 fish 1	750 μg/l (LL50)
EC50 Daphnia 1	8,3 mg/l
EC50 other aquatic organisms 1	340 mg/l Mud, slime

Safety Data Sheet

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EC50 72h - Algae [1]	0,45 – 0,75 mg/l			
NOEC chronic algae	0,32 mg/l (72h, Pseudokirchneriella subcapitata)			
2,6-Di-tert-butylphenol (128-39-2)				
LC50 fish 1	1,4 mg/l Test organisms (species): Pimephales promelas			
LC50 other aquatic organisms 1	0,45 mg/l			
EC50 Daphnia 1	0,45 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	3,6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	1,4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 96h - Algae [1]	3,9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 96h - Algae [2]	1,2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
LOEC (chronic)	0,086 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC (chronic)	0,035 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC chronic crustacea	0,035 mg/l (21d)			
Distillates (petroleum), solvent-de	waxed 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)			
Distillates (petroleum), solvent-de	waxed 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 OSO S 46		
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 persister particularly in anaerobic conditions.		
Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl		
Biodegradation	24 % (28d, OECD TG 301 B)	

Safety Data Sheet

Bioaccumulative potential

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

2,6-Di-tert-butylphenol (128-39-2)			
Biodegradation	24 % (Zahn-Wellens, 10-20 %)		
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)		
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 OSO S 46			
Log Pow	Not applicable for mixtures		
Log Kow	Not applicable for mixtures		

Reaction Products of Diphospho	rus Pentaoxide with Alcohols	C14-18 even, salted with	Amines, C12-14, Tert-alkyl
reaction routiets of Dipliespile	ius i chidoxide with Alcohols	, orthing croin, suited with	

Not established.

Log Kow	5,14 (25°C)		
2,6-Di-tert-butylphenol (128-39-2)			
Log Kow	4,5 (0.1 d, 10-20 %)		
Distillates (petroleum), solvent-dewaxed heavy 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.		
Distillates (petroleum), solvent-dewaxed heavy 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 OSO S 46		
Ecology - soil No data available.		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
Log Koc 1,71 – 14,7		
Ecology - soil	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

Distillates (petroleum), solvent-dewaxed heavy 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			
Eni OSO S 46			
This substance/mixture does not meet the PBT criteria	of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria	a of REACH regulation, annex XIII		
Results of PBT-vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)		
Component			
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)		
12.6. 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 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 at a concentration equal to or greater than 0,1 %		
12.7. Other adverse effects			
Other adverse effects : Additional information :	None This product has no specific properties for inhibition of bacterial activity. In any case, wastewater containing this product should be treated in plants that are suited for the specific purpose.		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector. Dispose of empty containers and wastes safely.
Sewage disposal recommendations	 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.
Additional information	: Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.
Ecology - waste materials EURAL code (EWC)	 The product as it is does not contain halogenated substances. 13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

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

Safety Data Sheet

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID r	number			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard	class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	zards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport Not regulated

Not regulated

Rail transport

Not regulated

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Eni OSO S 46 ; Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert- alkyl	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

Safety Data Sheet

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

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

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

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

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

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

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

15.1.2. National regulations

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

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).

Relevant national laws on prevention of water pollution.

Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).

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

France			
Maladies professionelles (F)			
Code	Description	Description	
RG 36	Diseases caused by oils	s 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.	
Water hazard class (WG	K) (D)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)	
WGK remark		: Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)	
Hazardous Incident Ordi	nance (12. BlmSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)	
National Rules and Reco		: 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	
Storage class (LGK, TRO	GS 510)	: LGK 12 - Non-combustible liquids	
VbF class (D)		: Not applicable.	
Netherlands			
Saneringsinspanningen		: C - Minimize discharge	
SZW-lijst van kankerverv	vekkende stoffen	: None of the components are listed	
SZW-lijst van mutagene		: None of the components are listed	
	che stoffen – Borstvoeding	: None of the components are listed	
SZW-lijst van reprotoxisc	-	: None of the components are listed	
Vruchtbaarheid			
SZW-lijst van reprotoxiso	che stoffen – Ontwikkeling	: None of the components are listed	
Denmark	Ū		
Danish National Regulat	ions	: Pregnant/breastfeeding women working with the product must not be in direct contact with it	
Switzerland			
Storage class (LK)		: LK 10/12 - Liquids	
olorage class (LIV)		. LIX 10/12 - LIQUIUS	

15.2. Chemical safety assessment

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

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

Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl 2,6-Di-tert-butylphenol

Safety Data Sheet

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SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Notes	
3.2	Composition/information on ingredients	ts Modified		
3.2	Comments	Modified		

Abbreviations a			
	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		
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)		
LD50	Lethal dose for 50 percent of test population (median lethal dose)		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006		
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
vPvB	Very Persistent and Very Bioaccumulative		

Data sources

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.

Safety Data Sheet

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

Other information

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

Full text of H- and EUH-statements:			
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1B	Skin sensitisation, category 1B		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Aquatic Chronic 3	H412	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.