



# Eni Grease LC 2

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878  
Revision date: 19/07/2022 Supersedes: 22/09/2020 Version: 7.0

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Eni Grease LC 2
Product code	: 1191
Type of product	: Lubricant grease
Formula	: 1907-2022
Product group	: Trade product

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

##### 1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: Used in closed systems Wide dispersive use
Use of the substance/mixture	: Lubricant grease ----- Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category	: Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Eni S.p.A., P.le E. Mattei 1, 00144 Rom, ITALY, Tel. +39 06 59821, [www.eni.com](http://www.eni.com)  
Competent person responsible for the safety data sheet (Reg. EC nr. 1907/2006): [SDSInfo@eni.com](mailto:SDSInfo@eni.com)

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e-mail: [technik.wuerzburg@enilive.com](mailto:technik.wuerzburg@enilive.com)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Adverse physicochemical, human health and environmental effects

None to be reported, according to the present EU regulations. 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]

EUH-statements	: EUH210 - Safety data sheet available on request.
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### 2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification : Combustible product. Thermal decomposition generates toxic vapours. Ingestion may cause nausea, vomiting and diarrhea. In case of contact with eyes, this product may cause irritation. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause long-term adverse effects in the environment. A potential risk may arise from the release of hydrogen sulfide, when the product is stored or handled at high temperature. Hydrogen sulfide may accumulate in the tanks or other confined spaces, with danger to the workers that enter the spaces. In these cases overexposure to hydrogen sulfide may cause irritation to airways, nausea, dizziness, loss of consciousness and death.

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

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

Component	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Residual oils (petroleum,) solvent-refined (64742-01-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII 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)

Component	
Distillates (petroleum), hydrotreated heavy naphthenic(64742-52-5)	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
Residual oils (petroleum,) solvent-refined(64742-01-4)	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

### 3.2. Mixtures

Notes : Composition/ Information on ingredients:  
Mixture of hydrocarbons  
Thickeners  
Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), hydrotreated heavy naphthenic (see note [*], see note [**])	(CAS-No.) 64742-52-5 (EC-No.) 265-155-0 (EC Index-No.) 649-465-00-7 (REACH-no) 01-2119467170-45	35 – 45	Not classified

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Residual oils (petroleum,) solvent-refined (see note [*], see note [**])	(CAS-No.) 64742-01-4 (EC-No.) 265-101-6 (EC Index-No.) 649-459-00-4 (REACH-no) 01-2119488707-21	35 – 40	Not classified
Lithium 12-hydroxystearate	(CAS-No.) 7620-77-1 (EC-No.) 231-536-5 (EC Index-No.) N/A (REACH-no) 01-2119970893-23	8 – 13	Not classified
Dilithium azelate (Additive)	(CAS-No.) 38900-29-7 (EC-No.) 254-184-4 (EC Index-No.) N/A (REACH-no) 01-2120119814-57	≥ 3 < 3,5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (Additive)	(CAS-No.) 85940-28-9 (EC-No.) 288-917-4 (EC Index-No.) N/A (REACH-no) 01-2119521201-61	≥ 1,5 < 2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

Notes

: Note [\*]:  
this product has a value of DMSO extract < 3 % wt, according to IP 346. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.

Note [\*\*]:  
substance with occupational exposure limits for some EU countries affecting the category of mineral oils (finely refined mineral base oil mists; see section 8.1)

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air, keep the casualty warm and at rest. If breathing is difficult, give oxygen if possible, or assisted ventilation. Seek medical advice. See also section 4.3.

First-aid measures after skin contact : Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do so. Rinse immediately with plenty of water. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

First-aid measures after ingestion : Do NOT induce vomiting. 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 unconscious, 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/effects after inhalation : None under normal conditions at ambient temperatures.

Symptoms/effects after skin contact : Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.

Symptoms/effects after eye contact : Contact with eyes may cause temporary reddening and irritation.

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 known.

#### 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 H<sub>2</sub>S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, or water spray or regular foam.  
Unsuitable extinguishing media : Do not use a heavy water stream. Use water stream to cool containers.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NO<sub>x</sub> (harmful/toxic gases). Oxygenated compounds (aldehydes, etc.). Combustion products include sulphur oxides (SO<sub>2</sub> and SO<sub>3</sub>) and Hydrogen sulphide H<sub>2</sub>S. LiOx. POx. ZnOx.

#### 5.3. Advice for firefighters

- Firefighting instructions : Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.  
Special protective equipment for firefighters : Personal protection equipment for firefighters (see also sect. 8). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659.  
Other information : In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid direct contact with released material. Avoid accidental sprays on hot surfaces or electrical contacts. Keep upwind. Spill area may be slippery.

##### 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 : Do not attempt to take action without suitable protective equipment. Personal protective equipment Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. 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 H<sub>2</sub>S), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. 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.

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### 6.2. Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

### 6.3. Methods and material for containment and cleaning up

- For containment : Collect free product with suitable mechanical means. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.
- Methods for cleaning up : Wash contaminated area with large amounts of water.
- Other information : Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : This material is combustible, but will not ignite readily. 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. Keep away from heat/sparks/open flames/hot surfaces. Avoid contact with skin, eyes and clothing. Do not use compressed air for filling, discharging, or handling operations. Use and store only outdoors or in a well-ventilated area. 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.
- Handling temperature : -20 – 140 °C
- Hygiene measures : Ensure that proper housekeeping measures are in place. 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. Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, well ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not smoke.
- Incompatible products : Keep away from: strong oxidants.
- Storage temperature : < 50 °C
- 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.

### 7.3. Specific end use(s)

No information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

<b>Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
OEL STEL	2 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Netherlands - Occupational Exposure Limits</b>	
MAC TGG 8h (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
VLA-EC (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
KTV (OEL STEL)	3 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
ACGIH OEL STEL	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
OEL STEL	2 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Netherlands - Occupational Exposure Limits</b>	
MAC TGG 8h (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

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<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>	
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
VLA-EC (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
KTV (OEL STEL)	3 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
ACGIH OEL STEL	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

### 8.1.2. Recommended monitoring procedures

<b>Monitoring methods</b>	
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

<b>Eni Grease LC 2</b>	
<b>DNEL/DMEL (additional information)</b>	
Additional information	Not applicable
<b>PNEC (additional information)</b>	
Additional information	Not applicable

<b>Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	0,97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,73 mg/m <sup>3</sup>
Long-term - local effects, inhalation	5,58 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0,74 mg/kg bodyweight/day
Long-term - local effects, inhalation	1,19 mg/m <sup>3</sup>
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	9,33 mg/kg food

<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	0,97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,73 mg/m <sup>3</sup>

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Long-term - local effects, inhalation	5,58 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0,74 mg/kg bodyweight/day
Long-term - local effects, inhalation	1,19 mg/m <sup>3</sup>
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	9,33 mg/kg food

<b>Dilithium azelate (38900-29-7)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	13,5 mg/kg bodyweight/day
Long-term - local effects, dermal	0,172 mg/cm <sup>2</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, oral	27 mg/kg bodyweight
Long-term - systemic effects, oral	13,5 mg/kg bodyweight/day
Long-term - systemic effects, dermal	13,5 mg/kg bodyweight/day
Long-term - local effects, dermal	0,023 mg/cm <sup>2</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	23 µg/l
PNEC aqua (marine water)	2,3 µg/l
PNEC aqua (intermittent, freshwater)	230 µg/l

<b>Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	9,6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,6 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0,19 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,67 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	4,8 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	2 µg/l
PNEC aqua (marine water)	200 ng/l
PNEC aqua (intermittent, freshwater)	20 µg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	19,3 mg/kg dwt
PNEC sediment (marine water)	1,93 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	15,7 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	100 mg/l

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Note : The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Minimize exposure to mists/vapours/aerosol. 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. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.2.2. Personal protection equipment

#### Personal protective equipment (for industrial or professional use):

Gloves. Safety shoes or boots.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. DIN EN 166. (recommended)

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Non-skid safety shoes or boots, chemical resistant.

##### 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.

##### Other skin protection

##### Materials for protective clothing:

Protective apron. DIN EN 465. DIN EN 466

#### 8.2.2.3. Respiratory protection

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### Respiratory protection:

Not necessary with sufficient ventilation. In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145). Combined gas/dust mask with filter type: EN 14387. 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 H<sub>2</sub>S) or self-contained breathing apparatus (SCBA). (EN 136/140/145)

### 8.2.2.4. Thermal hazards

#### Thermal hazard protection:

None in normal use conditions.

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Do not discharge the product into the environment. 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. 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	: Solid
Colour	: Nutty.
Appearance	: Soft paste. Slightly hazy.
Odour	: characteristic.
Odour threshold	: There are no data available on the preparation/mixture itself.
Melting point	: Not determined
Freezing point	: Not determined
Boiling point	: Not determined
Flammability	: Non flammable.
Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Explosive limits	: Not determined
Lower explosive limit (LEL)	: Not determined
Upper explosive limit (UEL)	: Not determined
Flash point	: > 220 °C (base oil) (ASTM D 445)
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
pH	: There are no data available on the preparation/mixture itself.
pH solution	: Not available
Viscosity, kinematic	: 220 mm <sup>2</sup> /s (40°C, base oil) (ASTM D 445)
Solubility	: Water: Immiscible and insoluble
Log Kow	: Not applicable for mixtures
Log Pow	: Not applicable for mixtures
Vapour pressure	: Not determined
Vapour pressure at 50 °C	: Not determined
Critical pressure	: Not applicable for mixtures
Density	: 0,9 kg/l 15°C (ASTM D 1298)
Relative density	: Not determined
Relative vapour density at 20 °C	: Not determined
Particle size	: Not determined
Particle size distribution	: Not determined
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not determined
Particle agglomeration state	: Not determined
Particle specific surface area	: Not determined
Particle dustiness	: Not available

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### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Penetration : 280 dmm (ASTM D 217, Class NLGI: 2)  
Drop point / drop range : 260°C (ASTM D 566)

## 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).

### 10.4. Conditions to avoid

None in normal conditions.

### 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. This product contains sulfur compounds which, in certain circumstances, may generate hydrogen sulfide.

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

#### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

LD50 oral rat	> 5000 mg/kg (OECD 401)
LD50 dermal rabbit	2000 – 5000 mg/kg bodyweight (OECD 402)
LC50 Inhalation - Rat	2,18 – 5,53 mg/l/4h (OECD 403)

#### Residual oils (petroleum,) solvent-refined (64742-01-4)

LD50 oral rat	5000 mg/kg bodyweight
LD50 dermal rat	2000 – 5000 mg/kg bodyweight
LC50 Inhalation - Rat	2,18 – 5,53 mg/l/4h

#### Lithium 12-hydroxystearate (7620-77-1)

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

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### Dilithium azelate (38900-29-7)

LD50 oral rat	300 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight

### Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)

LD50 oral rat	3080 mg/kg
LD50 dermal rabbit	20000 mg/kg
LC50 Inhalation - Rat	2,3 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: There are no data available on the preparation/mixture itself.
Additional information	: (according to composition)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: There are no data available on the preparation/mixture itself.
Additional information	: (according to composition)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) This product contains : Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.], Residual oils (petroleum) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] this product has a value of DMSO extract < 3 % wt, according to IP 346. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)

### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (OECD TG 408)
NOAEL (dermal, rat/rabbit, 90 days)	30 – 2000 mg/kg bodyweight/day
NOAEC (inhalation, rat, vapour, 90 days)	980 mg/m <sup>3</sup>

### Dilithium azelate (38900-29-7)

NOAEL (oral, rat, 90 days)	13,9 – 156 mg/kg bodyweight/day
NOAEL (dermal, rat/rabbit, 90 days)	111,25 – 1089,75 mg/kg bodyweight/day

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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Additional information : (according to composition)

### Eni Grease LC 2

Viscosity, kinematic	220 mm <sup>2</sup> /s (40°C, base oil) (ASTM D 445)
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### 11.2. Information on other hazards

#### 11.2.1. 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 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 %

#### 11.2.2 Other information

Potential adverse human health effects and symptoms : Contact with eyes may cause temporary reddening and irritation, Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, Inhalation of vapours may cause respiratory irritation, Avoid all eye and skin contact and do not breathe vapour and mist

Other information : None

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. 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 - water : This product is not soluble in water. It floats on water and forms a film on the surface.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

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

### Residual oils (petroleum,) solvent-refined (64742-01-4)

LC50 fish 1	100 mg/l
EC50 Daphnia 1	10 g/l

### Lithium 12-hydroxystearate (7620-77-1)

LC50 fish 1	100 mg/l
EC50 Daphnia 1	100 mg/l
EC50 72h - Algae [1]	100 – 160 mg/l
NOEC (chronic)	13 mg/l (28d)

### Dilithium azelate (38900-29-7)

LC50 fish 1	100 mg/l
EC50 Daphnia 1	100 mg/l
EC50 72h - Algae [1]	8,2 – 100 mg/l

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Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)	
LC50 fish 1	4,5 mg/l (Oncorhynchus mykiss)
EC50 Daphnia 1	5,4 mg/l
EC50 96h - Algae [1]	2 – 2,1 mg/l
NOEC chronic crustacea	800 µg/L (21d)

### 12.2. Persistence and degradability

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Persistence and degradability	A fraction of the constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Biodegradation	> 80 %

### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
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### Residual oils (petroleum,) solvent-refined (64742-01-4)

Persistence and degradability	Substance is complex UVCB. The test methods for this endpoint are not applicable to UVCB substances.
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### 12.3. Bioaccumulative potential

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Log Pow	Not applicable for mixtures
Log Kow	Not applicable for mixtures
Bioaccumulative potential	Not established. According to the characteristics of the components, the product has a low biodegradability in anaerobic conditions, and may be persistent. Some of the chemical compounds that are present in the product have a potential for bioaccumulation, and may be harmful to aquatic organisms.

### Residual oils (petroleum,) solvent-refined (64742-01-4)

Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.
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### 12.4. Mobility in soil

Eni Grease LC 2	
Mobility in soil	Not determined
Ecology - soil	Product adsorbs onto the soil.

### Residual oils (petroleum,) solvent-refined (64742-01-4)

Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.
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### 12.5. Results of PBT and vPvB assessment

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

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Results of PBT-vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)

Component	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Residual oils (petroleum,) solvent-refined (64742-01-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII 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 : None  
Additional information : No other effects known

## 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.

Sewage disposal recommendations : Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Dispose of in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 13 08 99\* (oil wastes not otherwise specified - wastes not otherwise specified). 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.

EURAL code (EWC) : 13 08 99\* - wastes not otherwise specified

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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### 14.3. Transport hazard class(es)

Not regulated				
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### 14.4. Packing group

Not regulated				
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### 14.5. Environmental hazards

Not regulated				
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None.

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

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

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

Reference code	Applicable on	Entry title or description
3(b)	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	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)	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	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

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

Contains no REACH Annex XIV substances

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

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

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Other information, restriction and prohibition regulations : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace). Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds). Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding). Substances Depleting the Ozone layer (1005/2009) - Annex I Substances (ODP). Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC). Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

### 15.1.2. National regulations

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

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

Relevant national laws on prevention of water pollution.

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

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

#### France

##### Maladies professionnelles (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.

Water hazard class (WGK) (D) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Classification is carried out on the basis of the Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)) of 18 April 2017 (BGBl 2017, Teil I, Nr. 22, Seite 905).

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

National Rules and Recommendations : TRGS 400: Hazard assessment for activities involving Hazardous Substances  
TRGS 401: Risks resulting from skin contact - identification, assessment, measures  
TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure  
TRGS 555: Working instruction and information for workers  
TRGS 800: Fire protection measures  
TRGS 900: Occupational Exposure Limits  
TRGS 905: List of mutagenic, carcinogenic or teratogenic substances

Storage class (LGK, TRGS 510) : LGK 11 - Combustible solids

VbF class (D) : Not applicable.

#### Netherlands

Saneringsinspanningen : C - Minimize discharge

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

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

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

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

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

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

#### Denmark

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

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### 15.2. Chemical safety assessment

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

No chemical safety assessment has been carried out

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

Distillates (petroleum), hydrotreated heavy naphthenic  
Residual oils (petroleum,) solvent-refined  
Dilithium azelate  
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

### SECTION 16: Other information

#### Indication of changes:

Section	Changed item	Change	Notes
	Adverse effects on the environment caused by endocrine disrupting properties	Added	
	Adverse health effects caused by endocrine disrupting properties	Added	
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1.1	Formula	Modified	
3	Composition/information on ingredients	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/A = not applicable
	N/D = not available
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

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NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

- Data sources : This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
- Training advice : Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.
- Other information : Do not use the product for any purposes that have not been advised by the manufacturer. 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 H<sub>2</sub>S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. This situation is especially relevant for those operations which involve direct exposure to the vapours in the interior of tanks or other confined spaces. If there is any suspicion of inhalation of H<sub>2</sub>S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

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.