

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 9/9/2024 Supersedes: 3/2/2023 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Trade name : Eni i-Sigma universal 10W-40 UFI : U0AY-68UH-GU0D-8YEF

Product code : 1085
Type of product : Lubricant
Formula : 0069-2016
Product group : Trade product

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

1.2.1. Relevant identified uses

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

Industrial/Professional use spec : Used in closed systems Wide dispersive use

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

Function or use category : Lubricants and additives

1.2.2. Uses advised against

Recommended use are listed above; other uses are not recommended unless an assessment has provided that risks are controlled.

1.3. Details of the supplier of the safety data sheet

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

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

Distributed by: Enilive Schmiertechnik GmbH, Paradiesstraße 14, 97080 Würzburg, GERMANY

Department responsible for information: Application Engineering & Product Management (AEPM), Tel. +49 (0)931-900 98-0

e-mail: technik.wuerzburg@enilive.com

1.4. Emergency telephone number

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

Poison Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319 Skin sensitisation, Category 1 H317

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

Adverse physicochemical, human health and environmental effects

Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May produce an allergic reaction. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

CLP Signal word : Warning

Contains : Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

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: H317 - May cause an allergic skin reaction. Hazard statements (CLP)

H319 - Causes serious eve irritation. Precautionary statements (CLP)

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see supplemental first aid instruction on this label).

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

2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component

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

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

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

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

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

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Component

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

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Composition/information on ingredients

Mixture of hydrocarbons

Polymers Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (see note [**], see note [***])	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	40 - 50	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic (see note [**], see note [***])	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	25 - 35	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (see note [**], see note [***])	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	5 – 9.9	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Mineral base oil, severely refined (For identification of the substance, see note [*] , see note [***])	EC-No.: N/A	5 - 7	Not classified
Distillates (petroleum), solvent-refined light paraffinic (see note [**], see note [***])	CAS-No.: 64741-89-5 EC-No.: 265-091-3 EC Index-No.: 649-455-00-2 REACH-no: 01-2119487067- 30	1 - 3	Asp. Tox. 1, H304
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (Additive)	CAS-No.: 68784-31-6 EC-No.: 272-238-5 EC Index-No.: N/A REACH-no: 01-2119657973- 23	0,5 - 1,5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated (Additive)	EC-No.: 953-650-0 REACH-no: N/A	0,5 - 1,5	Skin Sens. 1B, H317 Repr. 2, H361d

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated (Additive)		(2 ≤ C < 100) Skin Sens. 1B, H317 (17.15 ≤ C < 100) Repr. 2, H361d

Comments

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

CAS 101316-72-7/EC 309-877-7/REACH Reg. # 01-2119489969-06-xxxx; CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx; CAS 64742-01-4/EC 265-101-6/REACH Reg. # 01-2119488707-21-xxxx; CAS 72623-87-1/EC 276-738-4/REACH Reg. # 01-2119474889-13-xxxx; CAS 64742-71-8/EC 265-176-5/REACH Reg. # 01-2119485040-48-xxxx; CAS 64742-65-0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx.

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

Note [**]:

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

Note [***]:

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

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. 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 or rash occurs, get medical advice/attention. In case of burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by doctor's advice. Body hypothermia must be avoided. Do not put ice on the burn.

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First-aid measures after eye contact

: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. Remove contact lenses, if present and easy to do so. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. In case of burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by doctor's advice.

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

: 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 in case of sprays and mists. In these cases overexposure to mists (e.g. through prolonged use in confined insufficiently ventilated spaces) 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 produce an allergic reaction. Contact with hot product may cause thermal burns.

Symptoms/effects after eye contact

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

Symptoms/effects after ingestion

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

Symptoms/effects upon intravenous administration

: No information available.

Chronic symptoms

: None 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. Seek medical attention in all cases of serious burns.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

: Do not use direct water jets on the burning product. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.

Explosion hazard

: In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m³ air. Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries. Vapours are heavier than air and may spread along floors.

Hazardous decomposition products in case of fire

: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Oxygenated compounds (aldehydes, etc.). POx. ZnOx. CaOx. BOx.

5.3. Advice for firefighters

Firefighting instructions

: Shut off source of product, if possible. If possible, move containers and drums away from the danger area, if safe to do so. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.

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Special protective equipment for firefighters

: Wear personal protection equipment. (see chapter 8). EN 443. EN 469. EN 659. 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. Do not enter fire area without proper protective equipment, including respiratory protection.

Other information

: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

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

6.1.1. For non-emergency personnel

Protective equipment Emergency procedures : See Section 8.

: Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

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. Work helmet. Antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: a half or full-face respirator with filter(s) for organic vapours (AX), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. A Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Emergency procedures

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

6.2. Environmental precautions

Do not let the product accumulate in confined or underground spaces. Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

For containment

Contain spilled liquid with sand, earth or other suitable absorbents (non-flammable). Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations. If in water: Confine the spillage. Remove from surface by skimming or suitable floating absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.

Methods for cleaning up

: Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations. This material and its container must be disposed of in a safe way, and according to local legislation.

Other information

: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

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6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate cleanup, and check the atmosphere for oxygen content and flammability. See also Section 16, "Other information".

Hygiene measures

: Ensure that proper housekeeping measures are in place. Keep away from food and beverages. Avoid contact with skin and eyes. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Take off immediately all contaminated clothing and wash it before reuse. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well-ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.

Incompatible products

: Keep away from strong oxidizers.

Storage area

: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations/areas should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

Packaging materials

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. Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.

Packages and containers:

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

Germany

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

Switzerland

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

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Mineral base oil, severely refined		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Denmark - Occupational Exposure Limits		
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Netherlands - Occupational Exposure Limits		
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

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Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Denmark - Occupational Exposure Limits		
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Netherlands - Occupational Exposure Limits		
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated		
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA 4 mg/m³		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA 5 mg/m³		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

Safety Data Sheet

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

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

Denmark - Occupational Exposure Limits OEL TWA 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) OEL STEL 2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Netherlands - Occupational Exposure Limits MAC TGG 8h (mg/m³) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m²) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) United Kingdom - Occupational Exposure Limits	
OEL STEL 2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Netherlands - Occupational Exposure Limits MAC TGG 8h (mg/m³) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Netherlands - Occupational Exposure Limits MAC TGG 8h (mg/m³) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
AK (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Netherlands - Occupational Exposure Limits MAC TGG 8h (mg/m³) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Netherlands - Occupational Exposure Limits MAC TGG 8h (mg/m³) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
MAC TGG 8h (mg/m³) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL TWA) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-ED (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
NGV (OEL TWA) 1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL) 3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
WEL STEL (OEL STEL) 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA 5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
ACGIH OEL STEL 10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

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

Applicable OEL and BLV for air contaminants : None known

8.1.4. DNEL and PNEC

Eni i-Sigma universal 10W-40	
DNEL/DMEL (additional information)	
Additional information Not applicable	
PNEC (additional information)	
Additional information Not applicable	

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

DNEL/DMEL ((Workers)
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Long-term - systemic effects, dermal	1 mg/kg bodyweight/day

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obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers precionalizative in trough CSt and produces a filialisated oil of at least 100 SUS at 100°F (1965) at 40°C). It contains a relatively large proportion of saturated hydrocarbons (164742-54-7) Long-term - systemic effects, inhalation 2.7 mg/m² Long-term - local effects, inhalation 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.2 mg/m²/day Long-term - local effects, inhalation 9.33 mg/kg food DISELIDINEL (General population) Long-term - systemic effects, inhalation 9.33 mg/kg food DISELIDINEL (Workers) DISELIDINEL (Workers) Long-term - systemic effects, inhalation 2.97 mg/m² Long-term - systemic effects, inhalation 2.97 mg/m² Long-term - systemic effects, inhalation 2.74 mg/kg bodyweight/day Long-term - systemic effects, inhalation 1.99 mg/m² PREC (additional information) Additional information Not derived - Not classified as hazardous for environment PREC (additional information Not derived - Not derived - Not classified a	Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil— unspecified; [A complex combination of hydrocarbons		
Clog-St at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7) Long-term - systemic effects, inhalation 2.7 mg/m² Long-term - local effects, inhalation 0.74 mg/kg bodyweight/day Long-term - systemic effects, coral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.2 mg/m²/day PNEC (Oral) PNEC coral (secondary poisoning) 9.33 mg/kg food DISUILIAtes (petroloum), solvent-refined light partificir (64741-89-5) DNEL/DMEL (Workers) Long-term - systemic effects, dermal 0.97 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.79 mg/m² Long-term - systemic effects, inhalation 1.9 mg/m² Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - systemic effects, inhalation 1.9 mg/m² Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - systemic effects, inhalation 9.33 mg/kg food PNEC card (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information				
Long-term - systemic effects, inhalation 2,7 mg/m² DNELDMEL (General population) 0,74 mg/kg bodyweight/day Long-term - systemic effects, crolation 1,2 mg/m²/day Long-term - systemic effects, inhalation 1,2 mg/m²/day PNEC (Gral) FNEC oral (secondary poisoning) 9,33 mg/kg food DNELDMEL (Workora) Long-term - systemic effects, demal 0,97 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2,79 mg/m² Long-term - systemic effects, inhalation 2,79 mg/m² Long-term - systemic effects, inhalation 2,74 mg/kg bodyweight/day Long-term - local effects, inhalation 2,74 mg/kg bodyweight/day Long-term - local effects, inhalation 0,74 mg/kg bodyweight/day Long-term - local effects, inhalation 9,33 mg/kg food PNEC (Grad) PNEC (Grad) (secondary poisoning) 9,33 mg/kg food PNEC (Grad) (secondary poisoning) 9,33 mg/kg food PNEC (Grad) (secondary poisoning) 9,33 mg/kg food PNEC (Grad) (secondary poisoning) 9,33 mg/kg food<				
Long-term - local effects, inhalation 5.6 mg/m² 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 Distillates (petroleum), solvent-refined light >= **Tfflinic (64741-89-5) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 0.97 mg/kg bodyweight/day Long-term - systemic effects, inhalation 5.58 mg/m² DNEL/DMEL (General population) Long-term - systemic effects, inhalation 5.74 mg/kg bodyweight/day Long-term - systemic effects, inhalation 1.19 mg/m² PNEL/DMEL (General population) Long-term - systemic effects, inhalation 1.19 mg/m² PNEC (additional information) PNEC (additional information) Not derived - Not classified as hazardous for environment PNED (DMEL (Workers) Not derived - Not classified as hazardous for environment PNED (DMEL (Workers) Not derived - Not classified as hazardous for environment <td <="" colspan="2" td=""><td></td><td></td></td>	<td></td> <td></td>			
DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.2 mg/m²/day PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg foed DNEL/DMEL (Workers) Long-term - systemic effects, dermal 0.97 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.79 mg/m² Long-term - systemic effects, inhalation 2.79 mg/m² Long-term - systemic effects, inhalation 0.74 mg/kg bodyweight/day Long-term - systemic effects, kinhalation 1.19 mg/m² NEL/DMEL (General population) Long-term - systemic effects, kinhalation 1.9 mg/m² PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC (Graf) Not defects, infalation Not defects, infalation <td <="" colspan="2" td=""><td></td><td>-</td></td>	<td></td> <td>-</td>			-
Long-lerm - systemic effects, inhalation 0.74 mg/kg bodyweight/day PNEC (oral) PNEC oral (secondary poisoning) 9.33 mg/kg food Distillates (petroleum), solvent-rofined light paraffinic (64741-89-5) Distillates (petroleum), solvent-rofined light paraffinic (64741-89-5) DISTILUTION (Workers) Long-lerm - systemic effects, dermal 0.97 mg/kg bodyweight/day Long-lerm - systemic effects, inhalation 2.79 mg/m² DISTILUTION (Annual Information) DISTILUTION (Annual Information) DISTILUTION (Annual Information) PNEC Oral (secondary poisoning) <		5.6 mg/m²		
Long-term local effects, inhalation 1.2 mg/m²/day PNEC Oral (secondary poisoning) 9.33 mg/kg food DISELIDIATEL (Workers) Long-term systemic effects, dermal 0.97 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.79 mg/m² Long-term - systemic effects, inhalation 5.58 mg/m² DNEL/DMEL (General population) Long-term - systemic effects, inhalation 1.19 mg/m² Long-term - systemic effects, inhalation 1.19 mg/m² PNEC (oral) PNEC (and (secondary poisoning) 9.33 mg/kg food PNEC (and (secondary poisoning) Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-burder) PNEC (and (secondary poisoning) Not deriv		0.74		
PNEC oral (secondary poisoning) 9.33 mg/kg food				
PNEC oral (secondary poisoning) 9.33 mg/kg food Distillates (petroleum), solvent-refined light partifinic (64741-89-5) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 2.79 mg/m² Long-term - systemic effects, inhalation 5.58 mg/m² DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - systemic effects, inhalation 1.19 mg/m² PNEC (oral) PNEC (oral) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithiolic acid, mixed O,O-bis(sec-Butter) DNEL/DMEL (Workers) 3.40 mg/m² Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m² Long-term - systemic effects, inhalation 293 mg/m² DNEL/DMEL (General population) Acute - systemic effects, inhalation 496.4 mg/m² Long-term - systemic effects, inhalation 19.4 mg/kg bodyweight/day Acute - systemic effects, inhalation 19.2 m		1.2 mg/m³/day		
Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) DNEL/DMEL (Workers) Long-term - systemic effects, dermal 0.97 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.79 mg/m³ Long-term - local effects, inhalation 5.58 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.19 mg/m³ PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phesphorodithioic acid, mixed O,O-bis(sec-Bard 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m² Long-term - systemic effects, inhalation 29 mg/kg bodyweight/day DNEL/DMEL (General population) Acute - systemic effects, inhalation 50 mg/kg bodyweight/day <td col<="" td=""><td>, ,</td><td></td></td>	<td>, ,</td> <td></td>	, ,		
DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 2.79 mg/m³ Long-term - systemic effects, inhalation 5.58 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.19 mg/m³ PNEC (Oral) PNEC (and) (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,0-bis(sec-bund 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Long-term - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 293 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, inhalation 99.6 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, inhalation 29 mg/kg bodyweight/day Long-term - systemic effects, inhalation 29 mg/kg bodyweight/day L	PNEC oral (secondary poisoning)	9.33 mg/kg food		
Long-term - systemic effects, inhalation 2.79 mg/m² Long-term - systemic effects, inhalation 5.58 mg/m² DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.19 mg/m² PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O.0-bis(sec-bard 1.3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 29 mg/kg bodyweight/day DNEL/DMEL (General population) Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation DNEL/DMEL (General population) Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 198.6 mg/m³	Distillates (petroleum), solvent-refined light p	araffinic (64741-89-5)		
Long-term - systemic effects, inhalation 2.79 mg/m³ Long-term - local effects, inhalation 5.58 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.19 mg/m³ PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed Q,Q-bis(sec-but and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.9 mg/kg bodyweight/day Long-term - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg b	DNEL/DMEL (Workers)			
Long-term - local effects, inhalation 5.58 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.19 mg/m³ PNEC (Oral) PNEC coral (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-but and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.93 mg/m² DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, oral 29 mg/kg bodyweight/day Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 11.75 mg/m³	Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day		
DNEL/DMEL (General population) Long-term - systemic effects, oral 0.74 mg/kg bodyweight/day Long-term - local effects, inhalation 1.19 mg/m³ PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-Bund 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.93 mg/kg bodyweight/day DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, dermal 1.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bo	Long-term - systemic effects, inhalation	2.79 mg/m³		
Long-term - systemic effects, inhalation 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 Phosphorodithioic acid, mixed O,O-bis(sec-But and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m² Long-term - systemic effects, inhalation 2.93 mg/m² DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m² Acute - systemic effects, inhalation 198.6 mg/m² Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, dermal 1.75 mg/m² Long-term - systemic effects, dermal 1.175 mg/m² Long-term - systemi	Long-term - local effects, inhalation	5.58 mg/m³		
Long-term - local effects, inhalation 1.19 mg/m³ PNEC (Oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-but and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Acute - systemic effects, inhalation 2.93 mg/m² DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 2.9 mg/kg bodyweight/day Long-term - systemic effects, oral 2.9 mg/kg bodyweight/day Long-term - systemic effects, oral 2.1 mg/kg bodyweight/day Long-term - systemic effects, oral 2.2 mg/kg bodyweight/day Long-term - systemic effects, oral 2.1 mg/kg bodyweight/day Long-term - systemic effects, dermal 1.1.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (freshwater) 4 μg/l	DNEL/DMEL (General population)			
PNEC (oral) PNEC oral (secondary poisoning) 9.33 mg/kg food PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 2.93 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day		
PNEC oral (secondary poisoning) PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,0-bis(sec-Bund 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m² Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, inhalation 198.6 mg/m² Acute - systemic effects, inhalation 29 mg/kg bodyweight/day Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m² Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4 μg/l	Long-term - local effects, inhalation	1.19 mg/m³		
PNEC (additional information) Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-But and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 29 mg/kg bodyweight/day Long-term - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 2.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4 μg/l	PNEC (Oral)			
Additional information Not derived - Not classified as hazardous for environment Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	PNEC oral (secondary poisoning)	9.33 mg/kg food		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, dermal 10.42 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	PNEC (additional information)			
Acute - systemic effects, dermal 100 mg/kg bodyweight/day Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, dermal 10.42 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 29 mg/kg bodyweight/day Long-term - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	Additional information	Not derived - Not classified as hazardous for environment		
Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, inhalation 29 mg/kg bodyweight/day Long-term - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
Acute - systemic effects, inhalation 496.4 mg/m³ Long-term - systemic effects, dermal 10.42 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal 10.42 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.93 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Acute - systemic effects, dermal	100 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation DNEL/DMEL (General population) Acute - systemic effects, dermal Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Acute - systemic effects, inhalation	496.4 mg/m³		
DNEL/DMEL (General population) Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Long-term - systemic effects, dermal	10.42 mg/kg bodyweight/day		
Acute - systemic effects, dermal 50 mg/kg bodyweight/day Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Long-term - systemic effects, inhalation	2.93 mg/m³		
Acute - systemic effects, inhalation 198.6 mg/m³ Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	DNEL/DMEL (General population)			
Acute - systemic effects, oral 29 mg/kg bodyweight/day Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	Acute - systemic effects, dermal	50 mg/kg bodyweight/day		
Long-term - systemic effects, oral 0.21 mg/kg bodyweight/day Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Acute - systemic effects, inhalation	198.6 mg/m³		
Long-term - systemic effects, inhalation 11.75 mg/m³ Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Acute - systemic effects, oral	29 mg/kg bodyweight/day		
Long-term - systemic effects, dermal 2.1 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Long-term - systemic effects,oral	0.21 mg/kg bodyweight/day		
PNEC (Water) PNEC aqua (freshwater) 4 µg/l PNEC aqua (marine water) 4.6 µg/l	Long-term - systemic effects, inhalation	11.75 mg/m³		
PNEC aqua (freshwater) 4 μg/l PNEC aqua (marine water) 4.6 μg/l	Long-term - systemic effects, dermal	2.1 mg/kg bodyweight/day		
PNEC aqua (marine water) 4.6 µg/l	PNEC (Water)			
	PNEC aqua (freshwater)	4 µg/l		
PNEC aqua (intermittent, freshwater) 44 µg/l	PNEC aqua (marine water)	4.6 µg/l		
	PNEC aqua (intermittent, freshwater)	44 μg/l		

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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
PNEC (Sediment)			
PNEC sediment (freshwater)	0.0701 mg/kg dwt		
PNEC sediment (marine water)	0.00701 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.0548 mg/kg dwt		
PNEC (Oral)			
PNEC oral (secondary poisoning)	8.33 mg/kg food		
PNEC (STP)			
PNEC sewage treatment plant	3.8 mg/l		
Alkyl (C18-C28) toluenesulfonic acid, calcium	salts, borated		
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	14 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	1 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	3.5 mg/m³		
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day		
DNEL/DMEL (additional information)	DNEL/DMEL (additional information)		
Additional information	Not yet determined.		
PNEC (Water)			
PNEC aqua (freshwater)	0.36 mg/l		
PNEC aqua (marine water)	0.036 mg/l		
PNEC aqua (intermittent, freshwater)	0.493 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	6.37 mg/kg dwt		
PNEC sediment (marine water)	0.637 mg/kg dwt		
PNEC (Soil)			
PNEC soil	1.06 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	71.4 mg/l		
PNEC (additional information)			
Additional information	Not derived - Not classified as hazardous for environment		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	2.73 mg/m³		

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

Long-term - local effects, inhalation

5.58 mg/m³

Long-term - local effects, inhalation	5.58 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral 0.74 mg/kg bodyweight/day			
PNEC (Oral)			
PNEC oral (secondary poisoning)	9.33 mg/kg food		
PNEC (additional information)			
Additional information Not derived - Not classified as hazardous for environment			

Note

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

8.1.5. Control banding

Control banding : None known

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability. See also Section 16, "Other information".

8.2.2. Personal protection equipment

Personal protective equipment (for industrial or professional use):

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

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.

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Hand protection:

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

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 mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols. (EN 136/140/145). Combined gas/dust mask with filter type: EN 14387. Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure.

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. Onsite wastewater treatment required. Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Consumer exposure controls:

Ensure adequate ventilation. Wear protective gloves.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

Odour : Slight odour of petroleum.

Flammability : Not flammable Lower explosion limit : Not determined Upper explosion limit : Not determined Flash point : $\geq 208 \, ^{\circ}\text{C}$ (ASTM D 93)

Auto-ignition temperature : 250 - 370 °C (CAS 64742-54-7)

Decomposition temperature : Not determined pH : Not determined

Viscosity, kinematic : 96 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

Density : $867 \text{ kg/m}^3 (15 \,^{\circ}\text{C}) (\text{ASTM D } 1298)$

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 classes

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

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9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Negligible.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable product, according to its intrinsic properties.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

LD50 dermal rat

LC50 Inhalation - Rat

10.6. Hazardous decomposition products

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

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 paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

LD50 oral rat	> 5000 mg/kg (OECD 401)			
LD50 dermal rat	> 5000 mg/kg (OECD 402)			
LD50 dermal rabbit	> 2000 mg/kg bodyweight			
LC50 Inhalation - Rat > 5.53 mg/l/4h (EBSI, 1988)				
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)				
LD50 oral rat	> 5000 mg/kg (OECD 401)			
LD50 dermal rat	> 5000 mg/kg (OECD 402)			
LC50 Inhalation - Rat > 5 mg/l/4h (OECD 403)				
Mineral base oil, severely refined				
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)			

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> 5 mg/l/4h (OECD 403)

> 5000 mg/kg bodyweight (OECD 402)

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Distillates (petroleum), solvent-refined light p	Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)				
LD50 oral rat	> 5000 mg/kg (OECD 401)				
LD50 dermal rat	> 5000 mg/kg (OECD 402)				
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403)				
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)					
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)				
Alkyl (C18-C28) toluenesulfonic acid, calcium	salts, borated				
LD50 oral rat	3640 mg/kg bodyweight				
LD50 dermal rabbit	> 2000 mg/kg bodyweight				
hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbo finished oil with a viscosity not less than 100					
LD50 oral rat	> 5000 mg/kg (API 1982, UBTL 1983 - OECD 401)				
LD50 dermal rabbit	2000 – 5000 mg/kg bodyweight (API 1982, UBTL 1984 - OECD 402)				
LC50 Inhalation - Rat	3.9 – 5.3 mg/l/4h (Bio-Research Laboratories, Ltd. 1984 - OECD 403)				
	Not classified (Based on available data, the classification criteria are not met) pH: Not determined (according to composition)				
obtained by treating a petroleum fraction with carbon numbers predominantly in the range of	rraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons hydrogen in the presence of a catalyst. It consists of hydrocarbons having of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F roportion of saturated hydrocarbons.] (64742-54-7)				
рН	Not applicable				
Distillates (petroleum), hydrotreated heavy pa	rraffinic (64742-54-7)				
рН	Not applicable				
Mineral base oil, severely refined					
рН	Not applicable				
рН					
pH Distillates (petroleum), solvent-refined light p pH	araffinic (64741-89-5)				
pH Distillates (petroleum), solvent-refined light p pH	araffinic (64741-89-5) Not applicable				
pH Distillates (petroleum), solvent-refined light p pH Phosphorodithioic acid, mixed O,O-bis(sec-B pH Distillates (petroleum), solvent-dewaxed heav hydrocarbons obtained by removal of normal	araffinic (64741-89-5) Not applicable u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) ≈ 7 Temp.: 25 °C Concentration: (≈)0,00116 other: Remarks on result: 'other:' ry paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a				
pH Distillates (petroleum), solvent-refined light p pH Phosphorodithioic acid, mixed O,O-bis(sec-B pH Distillates (petroleum), solvent-dewaxed heav hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbo finished oil with a viscosity not less than 100 pH	araffinic (64741-89-5) Not applicable u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) ≈ 7 Temp.: 25 °C Concentration: (≈)0,00116 other: Remarks on result: 'other:' ry paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a				

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NOAEL (animal/male, F0/P)

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Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7)				
pH Not applicable				
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)			
pH Not applicable				
Mineral base oil, severely refined				
oH Not applicable				
Distillates (petroleum), solvent-refined light p	araffinic (64741-89-5)			
рН	Not applicable			
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
рН	≈ 7 Temp.: 25 °C Concentration: (≈)0,00116 other: Remarks on result: 'other:'			
hydrocarbons obtained by removal of normal	ry paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists in numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
pH	Not applicable			
	May cause an allergic skin reaction. Not classified (Based on available data, the classification criteria are not met) (according to composition) Not classified (Based on available data, the classification criteria are not met) (according to composition) This product contains: Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.], Lubricating oils (petroleum), C24-50, solvent-extd, dewaxed, hydrogenated; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C24 through C50 and produces a finished oil with a viscosity in the order of 16cSt to 75cSt at 40 °C (104 °F).], Distillates (petroleum), solvent-refined light paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).] 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)			
Distillates (petroleum), hydrotreated heavy pa obtained by treating a petroleum fraction with carbon numbers predominantly in the range of	Not classified (Based on available data, the classification criteria are not met) (according to composition) araffinic; Baseoil— unspecified; [A complex combination of hydrocarbons in hydrogen in the presence of a catalyst. It consists of hydrocarbons having of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F proportion of saturated hydrocarbons.] (64742-54-7)			

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1000 mg/kg bodyweight

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SDS EU format according to COMMISSION REGULATION (EU) 2020/878 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 paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day (OECD TG 408) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day (OECD TG 408) Mineral base oil, severely refined LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day (OECD TG 408) Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day (OECD TG 408) Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) NOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight/day Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408) LOAEL (dermal, rat/rabbit, 90 days) 100 mg/kg bodyweight/day NOAEL (oral, rat, 90 days) < 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408) NOAEL (dermal, rat/rabbit, 90 days) 1000 – 2000 mg/kg bodyweight/day (API 1982, Mobil Environmental and Health Science Laboratory 1983 - OECD 410) NOAEC (inhalation,rat, vapour, 90 days) 220 - 980 mg/m³ (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) Additional information (according to composition) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445) Eni i-Sigma universal 10W-40 Viscosity, kinematic 96 mm²/s (40 °C) (ASTM D 445) Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

40 mm²/s (40 °C) (ASTM D 445) Viscosity, kinematic

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

17.9 mm²/s (40 °C) (ASTM D 445) Viscosity, kinematic

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Mineral base oil, severely refined					
Viscosity, kinematic > 21 mm²/s					
Hydrocarbon	Yes				
Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)					
Viscosity, kinematic 14.5 – 16.5 mm²/s (40°C, ASTM D 445)					
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)					
Viscosity, kinematic 30 – 32 mm²/s (40 °C) (ASTM D 445)					

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 substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Potential adverse human health effects and symptoms

Other information

(chronic)

: Irritating to eyes, 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

: None

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general Ecology - air	 : 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 (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment. : 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 in case of sprays and mists. In these cases overexposure to mists (e.g. through prolonged use in confined insufficiently ventilated spaces) may cause irritation to airways, nausea and dizziness.
Ecology - water	: This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)
Hazardous to the aquatic environment, short–term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term	: Not classified (Based on available data, the classification criteria are not met)

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

` '				
LC50 fish 1	> 100 mg/l (LL 50)			
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)			
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)				
LC50 fish 1	> 100 mg/l (LL 50)			

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Distillates (petroleum), hydrotreated heavy p	araffinic (64742-54-7)			
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)			
Mineral base oil, severely refined				
LC50 fish 1	> 100 mg/l (LL 50)			
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)			
Distillates (petroleum), solvent-refined light p	paraffinic (64741-89-5)			
LC50 fish 1 > 100 mg/l (LL 50)				
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)			
Phosphorodithioic acid, mixed O,O-bis(sec-E	Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
LC50 fish 1 46 mg/l Test organisms (species): Cyprinodon variegatus				
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated				
LC50 fish 1	180 mg/l (Oryzias latipes)			
EC50 Daphnia 1	85.4 mg/l			
EC50 72h - Algae [1]	49.3 mg/l (Desmodesmus subspicatus)			
NOEC (chronic)	25 mg/l (21d)			
hydrocarbons obtained by removal of norma	vy paraffinic; Baseoil— unspecified; [A complex combination of I paraffins from a petroleum fraction by solvent crystallization. It consists on numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
LC50 fish 1	> 100 mg/l (LL 50, Exxon 1995 - OECD 203)			
EC50 Daphnia 1	> 10000 mg/l (EL50, Shell 1988 - OECD 202)			
NOEC (acute)	≥ 100 mg/l (Pseudokirchneriella subcapitata, 72h, OECD 201 - Petro-Canada 2008)			
NOEC chronic fish	≥ 1000 mg/l (Oncorhynchus mykiss, NOELR, 14d - QSAR, Redman, A. et al. 2010)			
NOEC chronic crustacea	≥ 1000 mg/l (21d, OECD 211 - Shell 1994)			

12.2. Persistence and degradability

Eni i-Sigma universal 10W-40			
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.		
Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7)			
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		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
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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Mineral base oil, severely refined					
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions				
Distillates (petroleum), solvent-refined light p	araffinic (64741-89-5)				
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				
Biodegradation	31 % (28d, Exxon 1995)				
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)				
Persistence and degradability	Rapidly degradable				
Alkyl (C18-C28) toluenesulfonic acid, calcium	salts, borated				
Persistence and degradability	Readily biodegradable				
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)					
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions				
Biodegradation	31 % (28d, Exxon 1995)				
Diodegradation	01 70 (20d, EXXXII 1000)				
12.3. Bioaccumulative potential	01 % (25d, 25x61 1556)				
	01 % (25d, Exxol 1956)				
12.3. Bioaccumulative potential	Not applicable for mixtures				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40					
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow	Not applicable for mixtures				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow	Not applicable for mixtures Not applicable for mixtures Not established.				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential	Not applicable for mixtures Not applicable for mixtures Not established.				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances.				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p Bioaccumulative potential	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances.				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p Bioaccumulative potential Alkyl (C18-C28) toluenesulfonic acid, calcium Log Pow Distillates (petroleum), solvent-dewaxed heav hydrocarbons obtained by removal of normal	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances. salts, borated 2.7 ry paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists in numbers predominantly in the range of C20 through C50 and produces a				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p Bioaccumulative potential Alkyl (C18-C28) toluenesulfonic acid, calcium Log Pow Distillates (petroleum), solvent-dewaxed heavy hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbons	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances. salts, borated 2.7 ry paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists in numbers predominantly in the range of C20 through C50 and produces a				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p Bioaccumulative potential Alkyl (C18-C28) toluenesulfonic acid, calcium Log Pow Distillates (petroleum), solvent-dewaxed heav hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbo finished oil with a viscosity not less than 100	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances. salts, borated 2.7 ry paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists in numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p Bioaccumulative potential Alkyl (C18-C28) toluenesulfonic acid, calcium Log Pow Distillates (petroleum), solvent-dewaxed heavy hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbofinished oil with a viscosity not less than 100 BCF fish 1	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances. salts, borated 2.7 by paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists in numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) 0.4 – 6280 l/kg				
12.3. Bioaccumulative potential Eni i-Sigma universal 10W-40 Log Pow Log Kow Bioaccumulative potential Distillates (petroleum), solvent-refined light p Bioaccumulative potential Alkyl (C18-C28) toluenesulfonic acid, calcium Log Pow Distillates (petroleum), solvent-dewaxed heavy hydrocarbons obtained by removal of normal predominantly of hydrocarbons having carbofinished oil with a viscosity not less than 100 BCF fish 1 BCF fish 2	Not applicable for mixtures Not applicable for mixtures Not established. araffinic (64741-89-5) The test methods for this endpoint are not applicable to UVCB substances. salts, borated 2.7 y paraffinic; Baseoil— unspecified; [A complex combination of paraffins from a petroleum fraction by solvent crystallization. It consists n numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) 0.4 – 6280 l/kg 3.16 – 71100 l/kg				

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12.4. Mobility in soil

Eni i-Sigma universal 10W-40			
Ecology - soil No data available.			
Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)			
Ecology - soil This product is not soluble in water. It floats on water and forms a film on the surface.			
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
Log Koc 1.71 – 14.7			
Ecology - soil The test methods for this endpoint are not applicable to UVCB substances.			

12.5. Results of PBT and vPvB assessment

Fni i	i-Sia	ma ur	niversa	I 10\	W-40
		IIII UI	II V CI JU		II-TU

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

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

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

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

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

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: Endocrine disrupting properties (Article 57(f) — environment): The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects 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 dumping on the ground, or 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 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, bore, burn or incinerate emptied containers, unless they have been cleaned and declared safe.

Ecology - waste materials

: The product as it is does not contain halogenated substances.

EURAL code (EWC)

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

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
Not regulated for transport				
14.2. UN proper shipping	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 hazards				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
None.				

14.6. Special precautions for user

Overland transport

Not regulated.

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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

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

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). POP (2019/1021) - Persistent Organic Pollutants. Regulation EU (649/2012) -Export and Import of hazardous chemicals (PIC). Commission Delegated Regulation (EU) 2017/2100. Commission Regulation (EU) 2018/605.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), solvent-refined light paraffinic; Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts; Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated	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(sec-Bu and 1,3-dimethylbutyl) 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

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REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

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

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

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

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	
RG 36	Diseases caused by oils and fats of mineral or synthetic origin	

Germany

to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.

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 500: Protective measures.

TRGS 555: Working instruction and information for workers.

TRGS 800: Fire protection measures.

TRGS 900: Occupational Exposure Limits.

VbF class (D) : Not applicable.

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

905).

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

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

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

Vruchtbaarheid

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

Denmark

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

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

15.2. Chemical safety assessment

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

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

Distillates (petroleum), hydrotreated heavy paraffinic; 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 a relatively large proportion of saturated hydrocarbons.]

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-refined light paraffinic

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts

Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
1.3	Supplier information	Modified	
2.3	Other hazards not contributing to the classification	Modified	
4.3	Other medical advice or treatment	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
6.1	Protective equipment	Modified	
7.1	Precautions for safe handling	Modified	
8.2	Respiratory protection	Modified	
8.2	Personal protective equipment (for industrial or professional use)	Modified	
8.2	Appropriate engineering controls	Modified	
10.6	Hazardous decomposition products	Modified	
16	Other information	Modified	

Abbreviations and acronyms:		
	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.	
	N/D = not available	
	N/A = not applicable	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CAS-No.	Chemical Abstract Service number	

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Abbreviations and acr	ronyms:	
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)	
EC-No.	European Community number	
ED	Endocrine disrupting properties	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)	
LD50	Lethal dose for 50 percent of test population (median lethal dose)	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
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	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Data sources

: This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.

Training advice

: Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.

Other information

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

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H304	May be fatal if swallowed and enters airways.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	

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Full text of H- and EUH-statements:		
H361d	Suspected of damaging the unborn child.	
H411	Toxic to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, 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]:		
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method

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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.