# TURBO PROTECT

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 3216B
Issue date: 19-12-17 Revision date: 24-05-24 Supersedes version of: 16-05-23 Version: 6.0

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

### 1.1. Product identifier

Product form : Mixture
Product name : TURBO PROTECT
UFI : Q9Q9-G83Q-090A-RSK8
Product code : 3216B # 733216BR4
Type of product : Lubricants and additives

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

#### 1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Function or use category : Fuel additives, Lubricants and additives

#### 1.2.2. Uses advised against

No additional information available

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

**Distributor**
SADAPS BARDAHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI
BELGIQUE
T +32 (0).69.59.03.60, F +32 (0).69.59.03.61
msds@bardahlfrance.com, www.bardahl.be

**Supplier**
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msds@bardahlfrance.com, www.bardahl.be

### 1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital<br>Msida<br>MSD 2090 Msida | +356 2545 6508 | |
| Saudi Arabia | Poison Control Center-Riyadh | General Directorate of Health Affairs<br>Medial Province | +966 112324180<br>+966 112324189 | |
| United Arab Emirates | Health Authority – Abu Dhabi (HAAD)<br>Poison & Drug Information Center (PDIC) | P.O. Box 5674 | + 800-424 | |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road<br>SE14 5ER | +44 20 7188 7188 | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

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

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

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05 GHS07 GHS09

Signal word (CLP) : Danger

Contains : Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate); Phosphoric acid, mono- and bis(branched and linear pentyl) esters; (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

Hazard statements (CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe vapours.
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

### 2.3. Other hazards

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), solvent-dewaxed light paraffinic (64742-56-9), Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5), Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), long chain alkyl thio carbamide metal complex |

| Component | |
|---|---|
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9), Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5), Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), long chain alkyl thio carbamide metal complex |

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 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | CAS-No.: 4259-15-8<br>EC-No.: 224-235-5<br>REACH-no: 01-2119493635-27 | 5-8 | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 |
| Phosphoric acid, mono- and bis(branched and linear pentyl) esters | CAS-No.: 84418-71-3<br>EC-No.: 282-784-6<br>REACH-no: 01-2119979550-30 | <3 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| Distillates (petroleum), solvent-dewaxed light paraffinic<br>substance with a Community workplace exposure limit | CAS-No.: 64742-56-9<br>EC-No.: 265-159-2<br>EC Index-No.: 649-469-00-9<br>REACH-no: 01-2119480132-48 | <2 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated heavy paraffinic<br>substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit | EC-No.: 265-157-1<br>REACH-no: 01-2119484627-25 | <2 | Asp. Tox. 1, H304 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic<br>substance with national workplace exposure limit(s) (BE, BG, CZ, DK, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK); substance with a Community workplace exposure limit<br>(Note L) | CAS-No.: 64742-65-0<br>EC-No.: 265-169-7<br>EC Index-No.: 649-474-00-6<br>REACH-no: 01-2119471299-27 | <2 | Asp. Tox. 1, H304 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | CAS-No.: 64742-70-7<br>EC-No.: 265-174-4<br>EC Index-No.: 649-477-00-2<br>REACH-no: 01-2119487080-42 | <2 | Asp. Tox. 1, H304 |
| C14-16-18 Alkyl phenol | EC-No.: 931-468-2<br>REACH-no: 01-2119498288-19 | <2 | Skin Sens. 1B, H317<br>STOT RE 2, H373 |
| mineral oil<br>(Note L) | - | <2 | Asp. Tox. 1, H304 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Amines, C10-14-tert-alkyl | CAS-No.: 68955-53-3<br>EC-No.: 701-175-2<br>REACH-no: 01-2119456798-18 | <1.5 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 2 (Inhalation), H330<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 2-ethylhexan-1-ol<br>substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, IE, IT, LV, PL, RO, SE); substance with a Community workplace exposure limit | CAS-No.: 104-76-7<br>EC-No.: 203-234-3<br>REACH-no: 01-2119487289-20 | <0.3 | Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |
| triphenyl phosphite | CAS-No.: 101-02-0<br>EC-No.: 202-908-4<br>EC Index-No.: 015-105-00-7<br>REACH-no: 01-2119511213-58 | <0.5 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | CAS-No.: 1213789-63-9<br>EC-No.: 627-034-4<br>REACH-no: 01-2119473797-19 | <0.5 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |
| long chain alkyl thio carbamide metal complex | EC-No.: 457-320-2<br>REACH-no: 01-0000019337-66 | <0.3 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |

| Specific concentration limits: | | |
|---|---|---|
| **Name** | **Product identifier** | **Specific concentration limits (%)** |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | CAS-No.: 4259-15-8<br>EC-No.: 224-235-5<br>REACH-no: 01-2119493635-27 | (50 ≤ C < 100) Eye Dam. 1, H318 |
| Amines, C10-14-tert-alkyl | CAS-No.: 68955-53-3<br>EC-No.: 701-175-2<br>REACH-no: 01-2119456798-18 | (6,7 ≤ C < 100) Skin Sens. 1A, H317 |
| triphenyl phosphite | CAS-No.: 101-02-0<br>EC-No.: 202-908-4<br>EC Index-No.: 015-105-00-7<br>REACH-no: 01-2119511213-58 | (5 ≤ C < 100) Skin Irrit. 2, H315<br>(5 ≤ C < 100) Eye Irrit. 2, H319 |

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 (“Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method” Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 general : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

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

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

## SECTION 6: Accidental release measures

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

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Spill area may be slippery. Keep public away from danger area. Equip cleanup crew with proper protection.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Recover the product with absorbent material.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information : Spill area may be slippery.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Technical measures : Provide local exhaust or general room ventilation.
Storage conditions : Store in a closed container. Keep out of frost.
Heat and ignition sources : Keep away from naked flames/heat. Keep away from ignition sources.
Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
Storage area : Store in a well-ventilated place. Store in a dry place.
Special rules on packaging : Store in original container.

**Switzerland**

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

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | 2-ethylhexan-1-ol |
| IOEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| **Austria - Occupational Exposure Limits** | |
| MAK (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| MAK (OEL STEL) | 10,8 mg/m³ |
| | 2 ppm |
| **Belgium - Occupational Exposure Limits** | |
| OEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| **Denmark - Occupational Exposure Limits** | |
| OEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| OEL STEL | 10,8 mg/m³ |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| | 2 ppm |
| **Finland - Occupational Exposure Limits** | |
| HTP (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| **France - Occupational Exposure Limits** | |
| VME (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| **Germany - Occupational Exposure Limits (TRGS 900)** | |
| AGW (OEL TWA) | 54 mg/m³ |
| | 10 ppm |
| **Ireland - Occupational Exposure Limits** | |
| OEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| **Italy - Occupational Exposure Limits** | |
| OEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| **Latvia - Occupational Exposure Limits** | |
| OEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| **Poland - Occupational Exposure Limits** | |
| NDS (OEL TWA) | 5,4 mg/m³ |
| NDSP (OEL C) | 10,8 mg/m³ |
| **Romania - Occupational Exposure Limits** | |
| OEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| **Spain - Occupational Exposure Limits** | |
| VLA-ED (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| VLA-EC (OEL STEL) | 110 mg/m³ |
| | 20 ppm |
| **Sweden - Occupational Exposure Limits** | |
| NGV (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| **United Kingdom - Occupational Exposure Limits** | |
| WEL TWA (OEL TWA) | 5,4 mg/m³ |
| **Norway - Occupational Exposure Limits** | |
| Grenseverdi (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| Korttidsverdi (OEL STEL) | 54 mg/m³ |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| | 10 ppm |
| **Switzerland - Occupational Exposure Limits** | |
| MAK (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |
| KZGW (OEL STEL) | 10,8 mg/m³ |
| | 2 ppm |

| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 5 mg/m³ |

| Distillates (petroleum), hydrotreated heavy paraffinic | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 5,4 mg/m³ |
| | 1 ppm |
| **France - Occupational Exposure Limits** | |
| VME (OEL TWA) | 5,4 mg/m³ |
| | 1 ppm |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 5 mg/m³ 8h |
| IOEL STEL | 10 mg/m³ 15min |
| **Belgium - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ 8h, mist (Belgium, 5/2021) |
| OEL STEL | 10 mg/m³ 15min, mist (Belgium, 5/2021) |
| **Bulgaria - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ 8h ; Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003.<br>(Bulgarie, 6/2021). |
| **Croatia - Occupational Exposure Limits** | |
| GVI (OEL TWA) | 5 mg/m³ |
| **Czech Republic - Occupational Exposure Limits** | |
| PEL (OEL TWA) | 5 mg/m³ 8h; aerosol ; Government regulation of Czech Republic PEL/NPK-P (République Tchèque, 5/2021). |
| NPK-P (OEL C) | 10 mg/m³ 15min; aerosol ; Government regulation of Czech Republic PEL/NPK-P (République Tchèque, 5/2021). |
| **Denmark - Occupational Exposure Limits** | |
| OEL TWA | 1 mg/m³ 8 h; mist and particles; Working Environment Authority (Danemark, 11/2021). |
| **Finland - Occupational Exposure Limits** | |
| HTP (OEL TWA) | 5 mg/m³ 8h ; mist ; Institute of Occupational Health, Ministry of Social Affairs (Finlande, 10/2021). |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| **France - Occupational Exposure Limits** | |
| VME (OEL TWA) | 5 mg/m³ |
| VLE (OEL C/STEL) | 10 mg/m³ |
| **Greece - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ 8h; mist; Ministry of Labour and Social Affairs (Grèce, 9/2021). |
| **Hungary - Occupational Exposure Limits** | |
| AK (OEL TWA) | 5 mg/m³ 8h; mist; 5/2020. (II. 6.) ITM Decree (Hongrie, 2/2020). |
| **Ireland - Occupational Exposure Limits** | |
| OEL TWA | 5 ppm 8h; particulates; NAOSH (Irlande, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) |
| **Latvia - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ 8h; Ministers Cabinet Regulations Nr.325 - AER (Lettonie, 2/2021). |
| **Lithuania - Occupational Exposure Limits** | |
| IPRV (OEL TWA) | 1 mg/m³ 8h; mist; Lithuanian Hygiene Standard HN 23 (Lituanie, 1/2021). |
| TPRV (OEL STEL) | 3 mg/m³ 15min; mist; Lithuanian Hygiene Standard HN 23 (Lituanie, 1/2021). |
| **Netherlands - Occupational Exposure Limits** | |
| TGG-8u (OEL TWA) | 5 mg/m³ 8h; mist; Ministry of Social Affairs and Employment, Legal limit values (Pays-Bas, 7/2021). |
| **Poland - Occupational Exposure Limits** | |
| NDS (OEL TWA) | 5 mg/m³ |
| **Portugal - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ |
| **Romania - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ 8h; HG 1218/2006 with subsequent modifications and additions (Roumanie, 3/2021). |
| **Slovakia - Occupational Exposure Limits** | |
| NPHV (OEL TWA) | 1 mg/m³ (mineral oils); 8h; liquid aerosol, fumes; Government regulation SR c. 355/2006 (Slovaquie, 9/2020). |
| NPHV (OEL STEL) | 5 mg/m³ (mineral oils); 15min; liquid aerosol, fumes; Government regulation SR c. 355/2006 (Slovaquie, 9/2020). |
| **Sweden - Occupational Exposure Limits** | |
| NGV (OEL TWA) | 1 mg/m³ 8h; mist and fumes; Work environment authority Regulation 2018:1 (Suède, 9/2021). |
| KGV (OEL STEL) | 3 mg/m³ 15min; mist and fumes; Work environment authority Regulation 2018:1 (Suède, 9/2021). |
| **United Kingdom - Occupational Exposure Limits** | |
| WEL TWA (OEL TWA) | 5 mg/m³ |
| WEL STEL (OEL STEL) | 10 mg/m³ |
| **Iceland - Occupational Exposure Limits** | |
| OEL TWA | 1 mg/m³ 8h; particulates; Ministry of Welfare, List of Exposure Limits (Islande, 5/2021). |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| **Switzerland - Occupational Exposure Limits** | |
| MAK (OEL TWA) | 5 mg/m³ |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

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



#### 8.2.2.1. Eye and face protection

**Eye protection:**
Safety glasses. ISO 16321-1. Wear eye protection

#### 8.2.2.2. Skin protection

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
Gloves. ISO 374-1. Wear protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**
Good ventilation of the workplace required

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | brown. |
| Appearance | : | clear. |
| Odour | : | Not available |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |

| | | |
|---|---|---|
| Boiling point | : | Not available |
| Flammability | : | Not available |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | > 60 °C |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | 104,6 (94,1 – 115,1) mm²/s (40°C) |
| Solubility | : | Not available |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 0,89 – 0,91 g/cm³ (20°C) |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

## SECTION 11: Toxicological information

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

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| LD50 oral rat | 2500 mg/kg |
| LD50 dermal rabbit | 2500 mg/kg |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| LC50 Inhalation - Rat (Dust/Mist) | 1,5 mg/l/4h |
| LC50 Inhalation - Rat (Vapours) | 11 mg/l/4h |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8) | |
|---|---|
| LD50 oral rat | 3100 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight |

| mineral oil | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | > 5 mg/l/4h |

| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 5,53 mg/l/4h |

| Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5) | |
|---|---|
| LD50 oral rat | 3760 mg/kg (OCDE 401) |
| LD50 dermal rabbit | > 5000 (OCDE 402) |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight (OECD 401) |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight (OECD 402) |
| LC50 Inhalation - Rat (Vapours) | > 5,53 mg/l/4h (OECD 403) |

| Paraffin oils (petroleum), catalytic dewaxed heavy (64742-70-7) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

| C14-16-18 Alkyl phenol | |
|---|---|
| LD50 oral rat | > 2000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bw/day |

| Phosphoric acid, mono- and bis(branched and linear pentyl) esters (84418-71-3) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 5,53 mg/l/4h |

| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) | |
|---|---|
| LD50 oral rat | 1689 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

| methyl-1H-benzotriazole (29385-43-1) | |
|---|---|
| LD50 oral | 720 mg/kg |

| methyl-1H-benzotriazole (29385-43-1) | |
|---|---|
| LD50 dermal rabbit | > 2000 mg/kg |

| Amines, C10-14-tert-alkyl (68955-53-3) | |
|---|---|
| LD50 oral rat | 612 mg/kg |
| LD50 dermal rat | 251 mg/kg |
| LC50 Inhalation - Rat | 1,19 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified

| triphenyl phosphite (101-02-0) | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day |
| NOAEL (subchronic, oral, animal/male, 90 days) | ≥ 2000 mg/kg bodyweight |
| NOAEL (subchronic, oral, animal/female, 90 days) | ≥ 2000 mg/kg bodyweight |

| C14-16-18 Alkyl phenol | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| Phosphoric acid, mono- and bis(branched and linear pentyl) esters (84418-71-3) | |
|---|---|
| NOAEL (subacute, oral, animal/male, 28 days) | 300 mg/kg bodyweight |

| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

| TURBO PROTECT | |
|---|---|
| Viscosity, kinematic | 104,6 (94,1 – 115,1) mm²/s (40°C) |

| NYCOBASE 3118 | |
|---|---|
| Viscosity, kinematic | 47 mm²/s (40°C) |

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Toxic to aquatic life with long lasting effects.

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| LC50 - Fish [1] | 28,2 mg/l (Pimephales promelas, 4DY) |
| LC50 - Fish [2] | 17,1 mg/l (Ide mélanote (Leuciscus idus), 4DY) |
| EC50 - Crustacea [1] | 1,82 mg/l (48h) |
| EC50 - Crustacea [2] | 2,72 mg/l (24h) |
| EC50 - Other aquatic organisms [1] | 39 mg/l (Cladocère, 2DY) |
| EC50 72h - Algae [1] | 16,6 mg/l Scenedesmus subspicatus |
| EC50 72h - Algae [2] | 11,5 mg/l Desmodesmus subspicatus |
| EC50 96h - Algae [1] | 1,3 mg/l Skeletonema costatum |
| NOEC chronic fish | 14 mg/l (Ide mélanote (Leuciscus idus), 4DY) |

| triphenyl phosphite (101-02-0) | |
|---|---|
| EC50 - Crustacea [1] | 0,94 mg/l (Daphnia magna) |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8) | |
|---|---|
| LC50 - Fish [1] | 4,4 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | 75 mg/l Daphnia magna ; 2 days |
| EC50 72h - Algae [1] | 410 mg/l Scenedesmus quadricauda ; 3 days |
| NOEC chronic crustacea | 0,4 mg/l (Daphnia magna), 21 d |
| NOEC chronic algae | 220 mg/l Scenedesmus quadricauda; 3 days |

| mineral oil | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l (Pimephales promelas) |
| EC50 - Crustacea [1] | > 10000 mg/l (Daphnia magma) |
| EC50 72h - Algae [1] | > 100 mg/l (Scenedesmus quadricauda) |
| NOEC chronic crustacea | > 10 mg/l (Daphnia magma) ; 21 days |

| Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5) | |
|---|---|
| LC50 - Fish [1] | 3,8 mg/l Oncorhynchus mykiss (Rainbow trout) |
| EC50 - Crustacea [1] | 510 mg/l Daphnia magna (Water flea) |
| EC50 72h - Algae [1] | 240 mg/l Desmodesmus subspicatus |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l (Pimephales promelas) |
| EC50 - Crustacea [1] | > 10000 mg/l (Daphnia magna) |
| NOEC chronic fish | 1000 mg/l (Oncorhynchus mykiss) - 14 days |
| NOEC chronic crustacea | 10 mg/l (Daphnia magna) - 21 days |
| NOEC chronic algae | > 100 mg/l (Pseudokirchneriella subcapitata) - 72 days |

| Paraffin oils (petroleum), catalytic dewaxed heavy (64742-70-7) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 10000 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l |

| C14-16-18 Alkyl phenol | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| EC50 72h - Algae [1] | ≥ 100 mg/l |

| long chain alkyl thio carbamide metal complex | |
|---|---|
| LC50 - Fish [1] | 94,8 mg/l (Oncorhynchus mykiss - OECD 203) |
| EC50 - Crustacea [1] | 50 mg/l (Daphnia magna - OECD 202) |
| EC50 72h - Algae [1] | 14 mg/l (Selenastrum capricornutum - OECD 201) |
| EC50 72h - Algae [2] | 9,62 mg/l (Pseudokirchneriella subcapitata - OCDE 201) |
| NOEC chronic crustacea | 100 mg/l |

| Phosphoric acid, mono- and bis(branched and linear pentyl) esters (84418-71-3) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | 56 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas, (OCDE 203 |
| EC50 - Crustacea [1] | > 10000 mg/l Gammarus pulex (OCDE 202) |
| EC50 - Crustacea [2] | > 10000 mg/l Daphnia magna (OCDE 202) |
| NOEC chronic fish | ≥ 1000 mg/l Oncorhynchus mykiss - QSAR Petrotox, 14/28d |
| NOEC chronic crustacea | 10 mg/l Daphnia magna ( OCDE 211) |

| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) | |
|---|---|
| LC50 - Fish [1] | 0,11 mg/l (Fathead Minnow) |
| LC50 - Fish [2] | 1,3 mg/l (Rainbow Trout) |
| EC50 - Crustacea [1] | 0,011 mg/l (Daphnia Magna) |
| EC50 72h - Algae [1] | > 0,1 mg/l |
| ErC50 algae | 0,04 mg/l |
| NOEC chronic algae | 0,013 mg/l |

| methyl-1H-benzotriazole (29385-43-1) | |
|---|---|
| LC50 - Fish [1] | 55 mg/l Cyprinodon variegatus |
| EC50 - Other aquatic organisms [1] | 55 mg/l Arcartia tonsa |
| ErC50 algae | 53 mg/l Skeletonema costatum |

| Amines, C10-14-tert-alkyl (68955-53-3) | |
|---|---|
| LC50 - Fish [1] | 1,3 mg/l |
| EC50 - Crustacea [1] | 2,5 mg/l |
| ErC50 algae | 0,44 mg/l |

## 12.2. Persistence and degradability

| TURBO PROTECT | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Paraffin oils (petroleum), catalytic dewaxed heavy (64742-70-7) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| huile minérale | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 95 % (OECD TG 302 B), 100% (OECD TG 301 C) |

| triphenyl phosphite (101-02-0) | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 0,14 % OECD TG 301 D |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8) | |
|---|---|
| Persistence and degradability | Not readily biodegradable,(OECD 301D method),<5 % biodegradation 28 days. |

| mineral oil | |
|---|---|
| Persistence and degradability | Not readily biodegradable,(OECD 301B method),31 % biodegradation 28 days. |

| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5) | |
|---|---|
| Persistence and degradability | Not readily biodegradable. |

| Distillates (petroleum), hydrotreated heavy paraffinic | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 31 % (28 d OECD 301F) |

| Paraffin oils (petroleum), catalytic dewaxed heavy (64742-70-7) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| C14-16-18 Alkyl phenol | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| long chain alkyl thio carbamide metal complex | |
|---|---|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 22,75 % (OCDE 301) |

| NYCOBASE 3118 | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Phosphoric acid, mono- and bis(branched and linear pentyl) esters (84418-71-3) | |
|---|---|
| Persistence and degradability | (OECD 301B method). |
| Biodegradation | 45 % |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 31 % (28d) (OCDE 301F) |

| 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol (91648-65-6) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 66 % OECD 301B |

| methyl-1H-benzotriazole (29385-43-1) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Amines, C10-14-tert-alkyl (68955-53-3) | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 21,8 % OECD 301D |

### 12.3. Bioaccumulative potential

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| Bioconcentration factor (BCF REACH) | 25,35 |
| Partition coefficient n-octanol/water (Log Kow) | 2,9 |

| triphenyl phosphite (101-02-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Kow) | 6,62 (25°C) |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Kow) | 3,6 |

| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | > 3 |

| Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2,87 (20°C) |
| Bioaccumulative potential | Does not significantly accumulate in organisms. |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| Bioconcentration factor (BCF REACH) | 260 |
| Partition coefficient n-octanol/water (Log Pow) | 9,2 |

| C14-16-18 Alkyl phenol | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | > 7,2 |

| long chain alkyl thio carbamide metal complex | |
|---|---|
| BCF - Fish [1] | 0,05 mg/l Cyprinus carpio |
| Bioconcentration factor (BCF REACH) | 88 (OCDE 305) |

| long chain alkyl thio carbamide metal complex | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 5,1 |

| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) | |
|---|---|
| Bioconcentration factor (BCF REACH) | 500 |
| Partition coefficient n-octanol/water (Log Kow) | 4,33 (25°C) |

| Amines, C10-14-tert-alkyl (68955-53-3) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2,9 |

### 12.4. Mobility in soil

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| Mobility in soil | -1,42 |

| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
|---|---|
| Ecology - soil | insoluble in water. |

| Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5) | |
|---|---|
| Mobility in soil | immobile |

| long chain alkyl thio carbamide metal complex | |
|---|---|
| Mobility in soil | Après libération, est absorbé par le sol. |

### 12.5. Results of PBT and vPvB assessment

| Component | |
|---|---|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9), Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5), Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), long chain alkyl thio carbamide metal complex |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9), Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5), Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), long chain alkyl thio carbamide metal complex |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

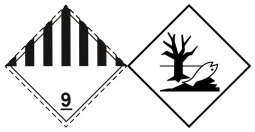
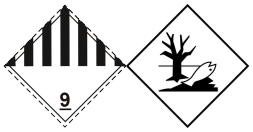
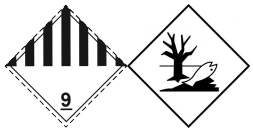
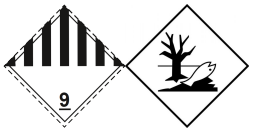
Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecological information : Do not discharge the product into the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| **14.2. UN proper shipping name** | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Environmentally hazardous substance, liquid, n.o.s. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **Transport document description** | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : Amines, C10-14-tert-alkyl ; (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) ; (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines ; Amines, C10-14-tert-alkyl), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines ; Amines, C10-14-tert-alkyl), 9, III |
| **14.3. Transport hazard class(es)** | | | |
| 9 | 9 | 9 | 9 |
|  |  |  |  |
| **14.4. Packing group** | | | |
| III | III | III | III |
| **14.5. Environmental hazards** | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | |

### 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | M6 |
| Special provisions (ADR) | : | 274, 335, 375, 601 |
| Limited quantities (ADR) | : | 5l |
| Excepted quantities (ADR) | : | E1 |
| Packing instructions (ADR) | : | P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : | PP1 |
| Mixed packing provisions (ADR) | : | MP19 |
| Portable tank and bulk container instructions (ADR) | : | T4 |
| Portable tank and bulk container special provisions (ADR) | : | TP1, TP29 |
| Tank code (ADR) | : | LGBV |
| Vehicle for tank carriage | : | AT |
| Transport category (ADR) | : | 3 |
| Special provisions for carriage - Packages (ADR) | : | V12 |

| | | |
|---|---|---|
| Special provisions for carriage - Loading, unloading and handling (ADR) | : | CV13 |
| Hazard identification number (Kemler No.) | : | 90 |
| Orange plates | : |  |
| Tunnel restriction code (ADR) | : | - |
| EAC code | : | •3Z |

### Transport by sea

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 274, 335, 969 |
| Limited quantities (IMDG) | : | 5 L |
| Excepted quantities (IMDG) | : | E1 |
| Packing instructions (IMDG) | : | LP01, P001 |
| Special packing provisions (IMDG) | : | PP1 |
| IBC packing instructions (IMDG) | : | IBC03 |
| Tank instructions (IMDG) | : | T4 |
| Tank special provisions (IMDG) | : | TP1, TP29 |
| EmS-No. (Fire) | : | F-A |
| EmS-No. (Spillage) | : | S-F |
| Stowage category (IMDG) | : | A |

### Air transport

| | | |
|---|---|---|
| PCA Excepted quantities (IATA) | : | E1 |
| PCA Limited quantities (IATA) | : | Y964 |
| PCA limited quantity max net quantity (IATA) | : | 30kgG |
| PCA packing instructions (IATA) | : | 964 |
| PCA max net quantity (IATA) | : | 450L |
| CAO packing instructions (IATA) | : | 964 |
| CAO max net quantity (IATA) | : | 450L |
| Special provisions (IATA) | : | A97, A158, A197, A215 |
| ERG code (IATA) | : | 9L |

### Rail transport

| | | |
|---|---|---|
| Classification code (RID) | : | M6 |
| Special provisions (RID) | : | 274, 335, 375, 601 |
| Limited quantities (RID) | : | 5L |
| Excepted quantities (RID) | : | E1 |
| Packing instructions (RID) | : | P001, IBC03, LP01, R001 |
| Special packing provisions (RID) | : | PP1 |
| Mixed packing provisions (RID) | : | MP19 |
| Portable tank and bulk container instructions (RID) | : | T4 |
| Portable tank and bulk container special provisions (RID) | : | TP1, TP29 |
| Tank codes for RID tanks (RID) | : | LGBV |
| Transport category (RID) | : | 3 |
| Special provisions for carriage – Packages (RID) | : | W12 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : | CW13, CW31 |
| Colis express (express parcels) (RID) | : | CE8 |
| Hazard identification number (RID) | : | 90 |

## 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

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

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

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**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)

**Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

**Seveso Directive (Disaster Risk Reduction)**

| Seveso III Part II (Named dangerous substances) | Qualifying quantity (tonnes) | |
|---|---|---|
| | Lower-tier | Upper-tier |
| 7. Arsenic pentoxide, arsenic (V) acid and/or salts | 1 | 2 |

**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

**France**

| Occupational diseases | |
|---|---|
| Code | Description |
| RG 36 | Diseases caused by oils and fats of mineral or synthetic origin |
| RG 49 | Skin disorders caused by aliphatic, alicyclic amines or ethanolamines |
| RG 59 | Occupational poisoning by hexane |
| RG 65 | Eczematiform lesions of allergic mechanism |

**Germany**

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

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

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

### Netherlands

| | | |
|---|---|---|
| SZW-lijst van kankerverwekkende stoffen | : | Distillates (petroleum), solvent-dewaxed light paraffinic,Distillates (petroleum), hydrotreated heavy paraffinic,Distillates (petroleum), solvent-dewaxed heavy paraffinic,Paraffin oils (petroleum), catalytic dewaxed heavy are listed |
| SZW-lijst van mutagene stoffen | : | Distillates (petroleum), solvent-dewaxed light paraffinic,Distillates (petroleum), hydrotreated heavy paraffinic,Distillates (petroleum), solvent-dewaxed heavy paraffinic,Paraffin oils (petroleum), catalytic dewaxed heavy are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : | None of the components are listed |

### Denmark

| | | |
|---|---|---|
| Classification remarks | : | Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : | Young people below the age of 18 years are not allowed to use the product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

| Full text of H- and EUH-statements: | |
|---|---|
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.