# 76840 - 2-Stroke Outboard Engine Oil

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 06/12/2024 Revision date: 14/10/2025 Supersedes version of: 06/12/2024 Version: 1.1

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

### 1.1. Product identifier

Product form : Mixture
Product name : 76840 - 2-Stroke Outboard Engine Oil
Product code : 76840

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

#### Relevant identified uses

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

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

Transnational Blenders bv
Wieldrechtseweg 37
NL 3316 BG Dordrecht, Netherlands, Zuid Holland
Netherlands
T +31 (0)78 6527652
technical@tnb.nl, www.tnb.nl

### 1.4. Emergency telephone number

| 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 (Healthcare professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil<br>substance with a Community workplace exposure limit<br>(Note L) | CAS-No.: 72623-87-1<br>EC-No.: 276-738-4<br>EC Index-No.: 649-483-00-5<br>REACH-no: 01-2119474889-13 | ≥ 15 – < 25 | Asp. Tox. 1, H304 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics<br>substance with national workplace exposure limit(s) (BE, NL); substance with a Community workplace exposure limit | EC-No.: 926-141-6<br>REACH-no: 01-2119456620-43 | ≥ 15 – < 25 | Asp. Tox. 1, H304<br>EUH066 |
| Distillates (petroleum), hydrotreated heavy paraffinic<br>substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit<br>(Note L) | CAS-No.: 64742-54-7<br>EC-No.: 265-157-1<br>EC Index-No.: 649-467-00-8<br>REACH-no: 01-2119484627-25 | ≥ 10 – < 15 | Asp. Tox. 1, H304 |
| Phenol,(dimethylamino)methyl-, polyisobutylene derivs. | EC-No.: 937-027-0 | ≥ 3 – < 10 | Aquatic Chronic 3, H412 |
| Residual oils (petroleum), solvent-dewaxed<br>substance with national workplace exposure limit(s) (NL)<br>(Note L) | CAS-No.: 64742-62-7<br>EC-No.: 265-166-0<br>EC Index-No.: 649-471-00-X<br>REACH-no: 01-2119480472-38 | ≥ 5 – < 10 | Not classified |
| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) | CAS-No.: 68784-17-8<br>EC-No.: 701-204-9<br>REACH-no: 01-2119960832-33 | ≥ 1 – < 3 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| Hydrocarbons, C10, aromatics, >1% naphthalene | EC-No.: 919-284-0<br>EC Index-No.: 649-424-00-3<br>REACH-no: 01-2119463588-24 | ≥ 0.3 – < 1 | Carc. 2, H351<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| naphthalene<br>substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE, NO, CH); substance with a Community workplace exposure limit | CAS-No.: 91-20-3<br>EC-No.: 202-049-5<br>EC Index-No.: 601-052-00-2<br>REACH-no: 01-2119561346-37 | < 0.3 | Flam. Sol. 2, H228<br>Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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 : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Storage temperature : ≤ 40 °C
Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**National occupational exposure and biological limit values**

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 5 mg/m³ |
| IOEL STEL | 10 mg/m³ |
| **Ireland - Occupational Exposure Limits** | |
| OEL TWA | 5 ppm Form: inhalable fraction |

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 1200 mg/m³ |
| | 165 ppm |

| naphthalene (91-20-3) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | Naphthalene |
| IOEL TWA | 50 mg/m³ |
| | 10 ppm |
| IOEL STEL | 15 mg/m³ |

| naphthalene (91-20-3) | |
|---|---|
| Remark | (Year of adoption 2010) |
| Regulatory reference | COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations |
| **Ireland - Occupational Exposure Limits** | |
| OEL TWA | 50 mg/m³ |
| | 10 ppm |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 5 mg/m³ |
| IOEL STEL | 10 mg/m³ |

## 8.2. Exposure controls

### Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

### Personal protection equipment

**Personal protective equipment:**
Wear recommended personal protective equipment.
**Personal protective equipment symbol(s):**

### Eye and face protection

**Eye protection:**
Safety glasses

| Eye protection | | | |
|---|---|---|---|
| **Type** | **Field of application** | **Characteristics** | **Standard** |
| Safety glasses | Droplet | clear | EN 166 |

### Skin protection

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

**Hand protection:**
Protective gloves

| Hand protection | | | | | |
|---|---|---|---|---|---|
| **Type** | **Material** | **Permeation** | **Thickness (mm)** | **Penetration** | **Standard** |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0.35 | | EN ISO 374 |

### Respiratory protection

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | brown. |
| Odour | : | Not available |
| Odour threshold | : | Not available |
| Melting point | : | Not applicable |
| Freezing point | : | -33 °C (ASTM D7346) |
| Boiling point | : | Not available |
| Flammability | : | Non flammable. |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | > 92 °C (ASTM D92) |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | 45.6 mm²/s @ 40°C (ASTM D7042) |
| Solubility | : | insoluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 878 kg/m³ @ 15°C (ASTM D4052) |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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 |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| LD50 oral (rat) | > 5000 mg/kg 401 Acute Oral Toxicity Test |
| LD50 dermal (rabbit) | > 5000 mg/kg 402 Acute Dermal Toxicity Test |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5 mg/l/4h 403 Acute Inhalation Toxicity Test |

| Residual oils (petroleum), solvent-dewaxed (64742-62-7) | |
|---|---|
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rat) | > 2000 mg/kg |

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
|---|---|
| LD50 oral (rat) | > 5000 mg/kg OECD Guideline 401 |
| LD50 dermal (rabbit) | > 5000 mg/kg OECD Guideline 402 |
| LC50 inhalation (rat) (mg/l) | > 5000 mg/m³ OECD Guideline 403 |

| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8) | |
|---|---|
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rabbit) | > 2000 mg/kg |

| Hydrocarbons, C10, aromatics, >1% naphthalene | |
|---|---|
| LD50 oral (rat) | > 5000 mg/kg bodyweight |
| LD50 dermal (rabbit) | > 2000 mg/kg |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 590 mg/l/4h |

| naphthalene (91-20-3) | |
|---|---|
| LD50 oral (rat) | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 inhalation (rat) (mg/l) | > 0.4 mg/l air Animal: rat, Guideline: other:EPA TSCA, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rabbit) | > 2000 mg/kg |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8) | |
|---|---|
| NOAEL (animal/male, F1) | > 1000 mg/kg |

| naphthalene (91-20-3) | |
|---|---|
| LOAEL (animal/female, F0/P) | 50 mg/kg bodyweight OECD Guideline 414 |
| LOAEL (animal/female, F1) | 450 mg/kg bodyweight OECD Guideline 414 |
| NOAEL (animal/female, F0/P) | 120 mg/kg bodyweight OECD Guideline 414 |

STOT-single exposure : Not classified

| Hydrocarbons, C10, aromatics, >1% naphthalene | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : Not classified

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

| Hydrocarbons, C10, aromatics, >1% naphthalene | |
|---|---|
| NOAEC (inhalation, rat, vapour, 90 days) | 2355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |

| naphthalene (91-20-3) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight OECD 408 |
| LOAEC (inhalation, rat, vapour, 90 days) | 0.011 mg/l air OECD Guideline 413 |
| NOAEL (dermal, rat/rabbit, 90 days) | 1000 mg/kg bodyweight OECD Guideline 411 |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day |

Aspiration hazard : Not classified

| 76840 - 2-Stroke Outboard Engine Oil | |
|---|---|
| Viscosity, kinematic | 45.6 mm²/s @ 40°C (ASTM D7042) |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| Viscosity, kinematic | 20.8 mm²/s @ 40°C |

| Residual oils (petroleum), solvent-dewaxed (64742-62-7) | |
|---|---|
| Viscosity, kinematic | 490 mm²/s @40°C |

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
|---|---|
| Viscosity, kinematic | 2.4 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |

| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8) | |
|---|---|
| Viscosity, kinematic | 76.34 mm²/s @100°C |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| Viscosity, kinematic | 47 mm²/s |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 10000 mg/l Daphnia magna |
| EC50 72h - Algae [1] | > 100 mg/l |

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
|---|---|
| LC50 - Fish [1] | > 1000 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | > 1000 mg/l Daphnia magna |
| EC50 72h - Algae [1] | > 1000 mg/l Pseudokirchneriella subcapitata |

| Phenol,(dimethylamino)methyl-, polyisobutylene derivs. | |
|---|---|
| LC50 - Fish [1] | 31 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | 100 mg/l Daphnia magna |
| EC50 96h - Algae [1] | > 450 mg/l Selenastrum capricornutum |

| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8) | |
|---|---|
| LC50 - Fish [1] | > 1000 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 1000 mg/l Daphnia magna |
| EC50 96h - Algae [1] | 94 mg/l Pseudokirchneriella subcapitata |
| NOEC chronic crustacea | > 32 mg/l Daphnia magna (21d) |
| NOEC chronic algae | 23 mg/l Selenastrum capricornutum (4d) |

| Hydrocarbons, C10, aromatics, >1% naphthalene | |
|---|---|
| LC50 - Fish [1] | 2 mg/l Source: IUCLID |
| EC50 - Crustacea [1] | 3 mg/l Daphnia magna |
| EC50 96h - Algae [1] | 1.1 mg/l Selenastrum capricornutum |

| naphthalene (91-20-3) | |
|---|---|
| LC50 - Fish [1] | 0.96 mg/l Oncorhynchus gorbuscha |
| EC50 - Crustacea [1] | 2.16 mg/l Daphnia magna |
| EC50 96h - Algae [1] | 2.96 mg/l Pseudokirchneriella subcapitata |
| NOEC (chronic) | 0.59 mg/l (Daphnia pulex; 125 d) |
| NOEC chronic fish | 0.12 mg/l Oncorhynchus gorbuscha (40d) |
| NOEC chronic crustacea | 0.59 mg/l Daphnia pulex (125d) |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 10000 Daphnia magna |
| NOEC chronic fish | 1000 mg/l Oncorhynchus mykiss (14d) |
| NOEC chronic crustacea | 10 mg/l Daphnia magna (21d) |
| NOEC chronic algae | 100 mg/l Pseudokirchneriella subcapitata (72h) |

## 12.2. Persistence and degradability

| 76840 - 2-Stroke Outboard Engine Oil | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |
| Biodegradation | < 31 % OECD TG 301 F (28d) |

| Residual oils (petroleum), solvent-dewaxed (64742-62-7) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 69 % OECD 301F (28d) |

| Phenol,(dimethylamino)methyl-, polyisobutylene derivs. | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 20.7 % 28 Days |

| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8) | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 4.5 % OECD TG 301 B (28d) |

| Hydrocarbons, C10, aromatics, >1% naphthalene | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 58 % OECD TG 301 F, 58 %, 28 d |

| naphthalene (91-20-3) | |
|---|---|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 2 % (28d) |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| Persistence and degradability | Rapidly degradable. |
| Biodegradation | 31 % |

## 12.3. Bioaccumulative potential

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2 – 6 |

| Residual oils (petroleum), solvent-dewaxed (64742-62-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | > 3.5 |

| Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Kow) | > 9.36 |

| naphthalene (91-20-3) | |
|---|---|
| Bioconcentration factor (BCF REACH) | < 100 |
| Partition coefficient n-octanol/water (Log Pow) | 3.01 |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | > 6 |

### 12.4. Mobility in soil

| naphthalene (91-20-3) | |
|---|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.6 |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 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

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.
European List of Waste (LoW, EC 2000/532) : 13 02 00 - waste 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 number** | | | | |
| Not regulated for transport | | | | |
| **14.2. UN proper shipping 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 |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**

Not regulated

### Transport by sea
Not regulated

### Air transport
Not regulated

### Inland waterway transport
Not regulated

### Rail transport
Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU-Regulations

#### REACH Annex XVII (Restriction List)

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 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 (EU 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 (EC 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)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: | |
|---|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| 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 |

| Abbreviations and acronyms: | |
|---|---|
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD | Chemical oxygen demand (COD) |
| CSA | Chemical safety assessment |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disruptor |
| EN | European Standard |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| MAK | maximum workplace concentration |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety  Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| PPE | Personal protection equipment |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TF | Technical function |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |

| Abbreviations and acronyms: | |
|---|---|
| TWA | Time Weighted Average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| UFI | Unique Formula Identifier |

| Full text of H- and EUH-statements: | |
|---|---|
| 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 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Sol. 2 | Flammable solids, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| 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. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH210 | Safety data sheet available on request. |

Safety Data Sheet (SDS), EU

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