

Product form

Product name Product code

76640 - Hydraulic Oil HV ZF 68

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 07/08/2012 Revision date: 24/03/2023 Supersedes version of: 14/02/2023 Version: 3.1

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

1.1. Product identifier

| ۰. | ۰. | 1 | ۰. | ۰. | ~ | ~ | ~ | <u> ۲</u> | ۰. | - | - | | | | |
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| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |

| : | Mixture |
|---|--------------------------------|
| : | 76640 - Hydraulic Oil HV ZF 68 |
| : | 76640 |

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 Function or use category

: Industrial use, Professional use, Consumer use

: Hydraulic fluids and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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 | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|----------------------------|------------------|-----------------------------------|
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER | +44 20 7188 7188 | |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA | 0344 892 0111 | Only for healthcare professionals |

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]

No labelling applicable

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 %

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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] |
|---|--|-------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, 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 | CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25 | ≥ 90 | Not classified |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, 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 | CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27 | ≥1-<5 | Not classified |

| SECTION 4: First aid measures | |
|--|---|
| 4.1. Description of first aid measures | |
| First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion | Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center or a doctor if you feel unwell. |
| 4.2. Most important symptoms and effec | ts, both acute and delayed |
| No additional information available | |

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 Unsuitable extinguishing media | Water spray. Dry powder. Foam. Carbon dioxide.Do not use a water jet since it may cause the fire to spread. | | | | | | |
| .2. Special hazards arising from the substance or mixture | | | | | | | |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. | | | | | | |
| 5.3. Advice for firefighters | | | | | | | |
| Precautionary measures fire Firefighting instructions Protection during firefighting | Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. | | | | | | |

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| SECTION 6: Accidental release measure | SECTION 6: Accidental release measures | | | | |
|---|--|--|--|--|--|
| 6.1. Personal precautions, protective equipm | nent and emergency procedures | | | | |
| | : Wear recommended personal protective equipment. : Ventilate spillage area. | | | | |
| 6.1.2. 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". | | | | |
| 6.2. Environmental precautions | | | | | |
| Avoid release to the environment. | | | | | |
| 6.3. Methods and material for containment a | nd cleaning up | | | | |
| For containment Methods for cleaning up Other information | Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up liquid spill into absorbent material. 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 | | | | | | | |
| Precautions for safe handling | : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment. | | | | | | |
| Handling temperature | : ≤40 °C | | | | | | |
| 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, inc | luding any incompatibilities | | | | | | |
| Technical measures | : Provide local exhaust or general room ventilation. | | | | | | |
| Storage conditions | : Store in a well-ventilated place. Keep cool. | | | | | | |
| Storage temperature | : ≤ 40 °C | | | | | | |
| Storage area | : Store in a well-ventilated place. Store away from heat. | | | | | | |
| Special rules on packaging | : Keep only in original container. Store in a closed container. | | | | | | |

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

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | | | | | |
|--|---|--|--|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | | | | |
| IOEL TWA 5 mg/m ³ | | | | | |
| IOEL STEL | 10 mg/m ³ | | | | |
| United Kingdom - Occupational Exposure Limits | United Kingdom - Occupational Exposure Limits | | | | |
| WEL TWA (OEL TWA) [1] 5 mg/m ³ | | | | | |

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| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | | | | | |
|--|--|--|--|--|--|
| WEL STEL (OEL STEL) | 10 mg/m ³ | | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | | | | | |
| EU - Indicative Occupational Exposure Limit (IOEL) | EU - Indicative Occupational Exposure Limit (IOEL) | | | | |
| IOEL TWA 5 mg/m ³ | | | | | |
| United Kingdom - Occupational Exposure Limits | | | | | |
| WEL TWA (OEL TWA) [1] 5 mg/m ³ | | | | | |

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

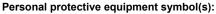
Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.





8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

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

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

| Hand protection | | | | | | |
|-----------------|---|-------------------|----------------|-------------|------------|--|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard | |
| | Nitrile rubber (NBR), Neoprene rubber (HNBR) | 5 (> 240 minutes) | 0.7 | 3 (> 0.65) | EN ISO 374 | |

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| Hand protection | | | | | |
|-----------------|-------------------------|------------------|----------------|-------------|------------|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| | Polyvinylchloride (PVC) | 2 (> 30 minutes) | 0.4 | 3 (> 0.65) | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. 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 | : Yellow-brown. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : -39 °C (ASTM D7346) |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 225 °C (ASTM D92) |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| рН | : Not available |
| Viscosity, kinematic | : 70 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 | : 877 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

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

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

10.2. Chemical stability

Stable under normal conditions.

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| 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 |
| No additional information available |

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), solvent-dewaxed heav | y paraffinic (64742-65-0) | | | |
| LD50 oral (rat) | > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test | | | |
| LD50 dermal (rabbit) | > 5000 mg/kg 402 Acute Dermal Toxicity Test | | | |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test | | | |
| Distillates (petroleum), hydrotreated heavy pa | iraffinic (64742-54-7) | | | |
| LD50 oral (rat) | > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test | | | |
| LD50 dermal (rabbit) | > 2000 mg/kg 402 Acute Dermal Toxicity Test | | | |
| LC50 inhalation (rat) (mg/l) | > 5000 mg/l/4h | | | |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test | | | |
| Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure: | Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Y paraffinic (64742-65-0) | | | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight | | | |
| 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 | | | |
| Aspiration hazard : | Not classified | | | |
| 76640 - Hydraulic Oil HV ZF 68 | | | | |
| Viscosity, kinematic | 70 mm²/s @ 40°C (ASTM D7042) | | | |
| Distillates (petroleum), solvent-dewaxed heav | y paraffinic (64742-65-0) | | | |
| Viscosity, kinematic | Viscosity, kinematic 150 (1.99 – 847) mm²/s @40°C | | | |

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| 1.2. Information on other hazards 0 additional information available SECTION 12: Ecological information 2.1. Toxicity Cology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. azardous to the aquatic environment, short-term : Not classified curley : Not classified azardous to the aquatic environment, long-term : Not classified CSO - Fih [1] > 100 mg/ Pimephales promales CSO - Crustacea [1] > 1000 mg/ Donothynchus mykiss (14d) OBCE chronic fish > 1000 mg/ Donothynchus mykiss (14d) OBCE chronic fish > 1000 mg/ Paeudokirchneriella subcapitata (72h) Distillates (petroleum), hydrotreated hoavy paraffinic (64742-65-7) CGO - Fih [1] CSO - Crustacea [1] > 100 mg/ Paeudokirchneriella subcapitat OEC chronic custacea > 100 mg/ Paeudokirchneriella subcapitat OEC chronic custacea 100 mg/ Donothynchus mykiss (14d) OEC chronic custacea 100 mg/ Donothynchus mykiss (14d) OEC chronic custacea 10 mg/l Daphnia magna OEC chronic digae > 100 mg/l Paeudokirchneriella subcapitat OEC chronic digae > 100 mg/l Paeudokirchneriella subcapitat < | according to the REACH Regulation (EC) 1907/2006 amended | d by Regulation (EU) 2020/878 |
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| SECTION 12: Ecological Information 2.1. Toxicity cology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. azardous to the aquatic environment, short-term : Not classified azardous to the aquatic environment, long-term : Not classified by:Bitlates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) CS0 - Fish [1] > 100 mgil Pinephales promelas CS0 - Fish [1] > 100 mgil Daphnia magna CS0 - Crustacea [1] > 100 mgil Daphnia magna OEC chronic fish > 100 mgil Pieudokirchneriella subcapitata (72h) CS0 - Fish [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea (1) > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgil Pinephales promelas CS0 - Crustacea [1] > 100 mgi | 11.2. Information on other hazards | |
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| scardous to the aquatic environment, long-term Is classified Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) 2000 mg/l Dephnia magna C50 - Fush [1] > 100 mg/l Dephnia magna C60 - Grustacea [1] > 100 mg/l Dephnia magna C60 - Grustacea [1] > 100 mg/l Dephnia magna C60 - Grustacea [1] > 100 mg/l Dephnia magna C60 - Grustacea [1] > 100 mg/l Pievadokirchneriella subcapitata (72h) C60 - Grustacea [1] > 100 mg/l Pievadokirchneriella subcapitata (72h) C60 - Grustacea [1] > 100 mg/l Pievadokirchneriella subcapitata (72h) C60 - Grustacea [1] > 100 mg/l Dephnia magna C60 - Grustacea [1] > 100 mg/l Dephnia magna C60 - Grustacea [1] > 100 mg/l Depundikrchneriella subcapitata (72h) C60 - Grustacea [1] > 100 mg/l Depundokirchneriella subcapitat C60 - Grustacea [1] > 100 mg/l Pievadokirchneriella subcapitata (72h) C60 - Grustacea [1] > 100 mg/l Pievadokirchneriella subcapitata (72h) C60 - Grustacea and degradability 100 mg/l Pievadokirchneriella subcapitata (72h) C60 - Grustacea and degradability 11 % OECD 301 F (284) Distillates (petroleum), hydrotreated heavy 11 % OECD 130 1 F (| Hazardous to the aquatic environment, short-term | |
| hronic) 2000 mg/l Pinephales promelas CS0 - Fish [1] > 100 mg/l Pinephales promelas CS0 - Crustacea [1] > 1000 mg/l Daphnia magna IOEC chronic fish > 100 mg/l Daphnia magna (21d) IOEC chronic rustacea > 10 mg/l Daphnia magna (21d) IOEC chronic rustacea > 100 mg/l Pinephales promelas CS0 - Fish [1] > 100 mg/l Daphnia magna (21d) IOEC chronic rustacea > 100 mg/l Daphnia magna CS0 - Fish [1] > 100 mg/l Daphnia magna CS0 - Fish [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Daphnia magna CS0 - Crustacea [1] > 100 mg/l Paseudokirchneriella subcapitat CS0 - Crustacea [1] > 100 mg/l Paseudokirchneriella subcapitat CS0 - Crustacea [1] > 100 mg/l Paseudokirchneriella subcapitat CS0 - Crustacea [1] > 100 mg/l Paseudokirchneriella subcapitat CS0 - Erisitence and degradability 10 mg/ | (acute) | |
| CC50 - Fish [1] > 100 mg/l Pimephales promelas CC50 - Crustacea [1] > 1000 mg/l Daphnia magna LOEC chronic fish > 1000 mg/l Daphnia magna (21d) LOEC chronic rustacea > 10 mg/l Pseudokirchneriella subcapitata (72h) Distillates (petroleum), hydrotreated heavy partifinic (64742-54-7) - LC50 - Fish [1] > 100 mg/l Pseudokirchneriella subcapitata (72h) Distillates (petroleum), hydrotreated heavy partifinic (64742-54-7) - LC50 - Grustacea [1] > 100 mg/l Pseudokirchneriella subcapitat LC50 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat LC50 - Grustacea [1] > 100 mg/l Pseudokirchneriella subcapitat LC50 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat LC50 - Crustacea 10 mg/l Pseudokirchneriella subcapitat LC50 - Crustacea 10 mg/l Pseudokirchneriella subcapitat (72h) LC50 - Crustacea 10 mg/l Pseudokirchneriella subcapitata (72h) L21 - Pseristence and degradability 31 % OECD 301 F (28d) Distillates (petroleum), hydrotrea | Hazardous to the aquatic environment, long-term : (chronic) | Not classified |
| C50 - Crustacea [1] > 10000 mg/l Daphnia magna QCEC chronic fish > 100 mg/l Daphnia magna (21d) QCEC chronic drustacea > 10 mg/l Daphnia magna (21d) QCEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) C50 - Fish [1] C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 1000 mg/l Daphnia magna C50 - Crustacea [1] > 1000 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] > 100 mg/l Daphnia magna C50 - Crustacea [1] 10 mg/l Daphnia magna </td <td>Distillates (petroleum), solvent-dewaxed hea</td> <td>vy paraffinic (64742-65-0)</td> | Distillates (petroleum), solvent-dewaxed hea | vy paraffinic (64742-65-0) |
| ADEC chronic fish > 1000 mg/l Oncorhynchus mykiss (14d) ADEC chronic crustacea > 10 mg/l Daphnia magna (21d) ADEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h) Distillates (petroleum), hydrotreated heavy partificis (64742-54-7) C60 - Fish [1] C50 - Fish [1] > 100 mg/l Daphnia magna C50 - Grustacea [1] > 1000 mg/l Daphnia magna C50 72h - Algae [1] > 1000 mg/l Daphnia magna ADEC chronic fish 1000 mg/l Daphnia magna (21d) ADEC chronic rustacea 10 mg/l Daphnia magna (21d) ADEC chronic subcacea 10 mg/l Paeudokirchneriella subcapitata (72h) Distillates (petroleum), solvent-dewaxed heavy partifinic (64742-65-0) 20 < | LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| ADD Control In a Data Carlow ADD Data Data Carlow <t< td=""><td>EC50 - Crustacea [1]</td><td>> 10000 mg/l Daphnia magna</td></t<> | EC50 - Crustacea [1] | > 10000 mg/l Daphnia magna |
| AOEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) CC50 - Fish [1] > 100 mg/l Pimephales promelas SC50 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat SC50 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat SC50 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat SC50 - Crustacea [1] > 100 mg/l Oncorhynchus mykiss (14d) SC50 - Chronic fish 100 mg/l Oncorhynchus mykiss (14d) SC50 - Chronic crustacea 10 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic crustacea 10 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic crustacea 10 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic algae > 100 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic algae > 100 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic algae > 100 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic algae > 100 mg/l Pseudokirchneriella subcapitat (72h) SC50 - Chronic algae > 100 mg/l Pseudokirchneriella subcapitat (72h) Sciedgeradation 31 % OECD 301F (28d) Sciedgeradation 31 % OECD TG 301 F (28d) Sciedgeradation <td< td=""><td>NOEC chronic fish</td><td>> 1000 mg/l Oncorhynchus mykiss (14d)</td></td<> | NOEC chronic fish | > 1000 mg/l Oncorhynchus mykiss (14d) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) AC50 - Fish [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 72h - Algae [1] > 100 mg/l Pseudokirchneriella subcapitat ADEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) ADEC chronic rustacea 10 mg/l Daphnia magna (21d) ADEC chronic algae > 100 mg/l Pseudokirchneriella subcapitat (72h) 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Biodegradation 31 % OECD TG 301 F (28d) Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-55-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | NOEC chronic crustacea | > 10 mg/l Daphnia magna (21d) |
| CG0 - Fish [1] > 100 mg/l Pimephales promelas CG0 - Crustacea [1] > 1000 mg/l Daphnia magna CG0 - Fish [1] > 100 mg/l Pseudokirchneriella subcapitat CG0 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat CG0 - Crustacea [1] > 100 mg/l Daphnia magna CG0 - Crustacea [1] > 100 mg/l Pseudokirchneriella subcapitat AOEC chronic fish 100 mg/l Daphnia magna (21d) AOEC chronic atgae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential 260 Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | NOEC chronic algae | > 100 mg/l Pseudokirchneriella subcapitata (72h) |
| EC50 - Crustacea [1] > 10000 mg/l Daphnia magna EC50 72h - Algae [1] > 100 mg/l Pseudokirchneriella subcapitat IOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) IOEC chronic crustacea 10 mg/l Daphnia magna (21d) IOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitat (72h) 2.2. Persistence and degradability > Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301 F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential > Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 | Distillates (petroleum), hydrotreated heavy p | paraffinic (64742-54-7) |
| EC50 72h - Algae [1] > 100 mg/l Pseudokirchneriella subcapitat AOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) AOEC chronic crustacea 10 mg/l Daphnia magna (21d) AOEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h) AOEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h) 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Paraffinic coefficient n-octanol/water (Log Pow) 3.9 – 6 | LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| AOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) AOEC chronic crustacea 10 mg/l Daphnia magna (21d) AOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) AOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Paratition coefficient n-octanol/water (Log Pow) 3.9 – 6 | EC50 - Crustacea [1] | > 10000 mg/l Daphnia magna |
| NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Parafinic (64742-65-0) 8ioconcentration factor (BCF REACH) 260 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Parafition coefficient n-octanol/water (Log Pow) 3.9 – 6 | EC50 72h - Algae [1] | > 100 mg/l Pseudokirchneriella subcapitat |
| NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential 31 % OECD TG 301 F (28d) Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | NOEC chronic fish | 1000 mg/l Oncorhynchus mykiss (14d) |
| 2.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential 31 % OECD TG 301 F (28d) Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) 260 Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) 2a Paratition coefficient n-octanol/water (Log Pow) 3.9 – 6 | NOEC chronic crustacea | 10 mg/l Daphnia magna (21d) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Paratition coefficient n-octanol/water (Log Pow) 3.9 – 6 | NOEC chronic algae | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) |
| Biodegradation 31 % OECD 301F (28d) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | 12.2. Persistence and degradability | |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Distillates (petroleum), solvent-dewaxed hea | vy paraffinic (64742-65-0) |
| Persistence and degradability Not readily biodegradable. Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Biodegradation | 31 % OECD 301F (28d) |
| Biodegradation 31 % OECD TG 301 F (28d) 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Distillates (petroleum), hydrotreated heavy p | baraffinic (64742-54-7) |
| 2.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Persistence and degradability | Not readily biodegradable. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Biodegradation | 31 % OECD TG 301 F (28d) |
| Bioconcentration factor (BCF REACH) 260 Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | 12.3. Bioaccumulative potential | |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Distillates (petroleum), solvent-dewaxed hea | vy paraffinic (64742-65-0) |
| Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 | Bioconcentration factor (BCF REACH) | 260 |
| | Distillates (petroleum), hydrotreated heavy p | baraffinic (64742-54-7) |
| 2.4. Mobility in soil | Partition coefficient n-octanol/water (Log Pow) | 3.9 - 6 |
| | 12.4. Mobility in soil | |

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| 2.5. Results of PBT and vPvB assessment |
|---|
| lo additional information available |
| 2.6. Endocrine disrupting properties |
| lo additional information available |
| 2.7. Other adverse effects |
| lo additional information available |
| |
| SECTION 13: Disposal considerations |

| 13.1. Waste treatment methods | |
|------------------------------------|---|
| Waste treatment methods HP Code | Dispose of contents/container in accordance with licensed collector's sorting instructions. HP3 - "Flammable:" flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; water reactive waste: waste which, in contact with water, emits flammable gases in |

- dangerous quantities;
- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

SECTION 14: Transport information

| ADR | IMDG | ΙΑΤΑ | ADN | RID |
|------------------------------|----------------|----------------|----------------|----------------|
| I4.1. UN number or ID n | number | 1 | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shippin | ig name | · · · · · · | , | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard o | class(es) | · · · · · · | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | · · · · · | , | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental haz | zards | · · · · · · | , | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information | on available | 1 | 1 | |

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport

Not applicable

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)

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

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|---|----------|----------|
| Section | Changed item | Change | Comments |
| | Revision date | Modified | |
| | Supersedes | Modified | |
| 2.1 | Adverse physicochemical, human health and environmental effects | Modified | |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes | | | |
|-----------------------|--|----------|----------|
| Section | Changed item | Change | Comments |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Removed | |
| 2.2 | EUH-statements | Added | |
| 3 | Composition/information on ingredients | Modified | |
| 12.1 | Ecology - general | Modified | |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| 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 | |
| BLV | Biological limit value | |
| BOD | Biochemical oxygen demand (BOD) | |
| COD | Chemical oxygen demand (COD) | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC-No. | European Community number | |
| EC50 | Median effective concentration | |
| EN | European Standard | |
| IARC | International Agency for Research on Cancer | |
| ΙΑΤΑ | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| LC50 | Median lethal concentration | |
| LD50 | 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 | |
| РВТ | Persistent Bioaccumulative Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| SDS | Safety Data Sheet | |
| STP | Sewage treatment plant | |
| ThOD | Theoretical oxygen demand (ThOD) | |
| TLM | Median Tolerance Limit | |
| VOC | Volatile Organic Compounds | |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: | |
|------------------------------------|--|
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED Endocrine disrupting properties | |

The classification complies with

: ATP 8

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.