

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : 42180 - MOTOR OIL FEB 5W-20
Product code : 42180

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 : Industrial use, Professional use, Consumer use
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

77 Lubricants B.V.
NL- 1761 JA
The Netherlands
T +31 (0)78 6527652
technical@77lubricants.nl - www.77lubricants.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]**

EUH-statements : EUH208 - Contains C14-16-18 Alkyl phenol, Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

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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] |
|---|--|-------------|---|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit | CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16 | ≥ 75 – < 90 | Asp. Tox. 1, H304 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil substance with a Community workplace exposure limit | CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13 | ≥ 5 – < 10 | Asp. Tox. 1, H304 |
| 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 | ≥ 0.3 – < 3 | Not classified |
| Distillates (petroleum), solvent-dewaxed light paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit | CAS-No.: 64742-56-9 EC-No.: 265-159-2 EC Index-No.: 649-469-00-9 REACH-no: 01-2119480132-48 | ≥ 0.1 – < 3 | Asp. Tox. 1, H304 |
| 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 | ≥ 0.1 – < 3 | Not classified |
| Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil | CAS-No.: 64742-70-7 EC-No.: 265-174-4 EC Index-No.: 649-477-00-2 REACH-no: 01-2119487080-42 | ≥ 0.1 – < 3 | Asp. Tox. 1, H304 |
| C14-16-18 Alkyl phenol | EC-No.: 931-468-2 REACH-no: 01-2119498288-19 | ≥ 0.1 – < 1 | Skin Sens. 1B, H317 STOT RE 2, H373 |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex substance with a Community workplace exposure limit | EC-No.: 457-320-2 REACH-no: 01-0000019337-66 | < 0.3 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| 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. |

4.2. Most important symptoms and effects, 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 | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a water jet since it may cause the fire to spread. |

5.2. 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 | : Exercise caution when fighting any chemical fire. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| 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 | : Avoid spilling the product, as this might cause falls. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : 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 and cleaning up

| | |
|-------------------------|--|
| For containment | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| 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.

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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, including 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

| | |
|--|--|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 5 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| 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 |
| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 5 mg/m ³ ACGIH TLV (inhalable fraction) |
| 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 | |
| WEL TWA (OEL TWA) [1] | 5 mg/m ³ |
| WEL STEL (OEL STEL) | 10 mg/m ³ |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 5 mg/m ³ |
| IOEL STEL | 10 mg/m ³ |

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Molybdenum polysulphide long chain alkyl dithiocarbamate complex

EU - Indicative Occupational Exposure Limit (IOEL)

| | |
|-----------|----------------------|
| IOEL TWA | 5 mg/m ³ |
| IOEL STEL | 10 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.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection

| Type | 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

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0.35 | | 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

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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 | : Not available |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : -42 °C (ASTM D7346) |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 201 °C (ASTM D92) |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : 43.5 mm ² /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 | : 851 kg/m ³ @ 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.

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.

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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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

| | |
|---|--|
| 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) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test |

C14-16-18 Alkyl phenol

| | |
|-------------------|-------------------------|
| LD50 oral (rat) | > 2000 mg/kg bodyweight |
| LD50 dermal (rat) | > 2000 mg/kg |

Distillates (petroleum), hydrotreated heavy paraffinic (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 |

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

| | |
|---|-------------------------|
| LD50 oral (rat) | > 5000 mg/kg bodyweight |
| LD50 dermal (rat) | > 5000 mg/kg |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 2.18 mg/l/4h |

Distillates (petroleum), solvent-dewaxed heavy 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 |

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil (64742-70-7)

| | |
|---|--------------|
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rabbit) | > 2000 mg/kg |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | 5 mg/l/4h |

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 |

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

| | |
|-------------------|--------------------------------------|
| LD50 oral (rat) | > 2000 mg/kg OECD Test Guideline 425 |
| LD50 dermal (rat) | > 2000 mg/kg OECD Test Guideline 402 |

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| | |
|-----------------------------------|------------------|
| 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 |

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

| | |
|---------------------------|-----------------------|
| NOAEL (animal/male, F0/P) | 1000 mg/kg bodyweight |
|---------------------------|-----------------------|

| | |
|------------------------|------------------|
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

| | |
|----------------------------|----------------------|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight |
|----------------------------|----------------------|

C14-16-18 Alkyl phenol

| | |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs (liver) through prolonged or repeated exposure. |
|------------------------|--|

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 |
|----------------------------|---|

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

| | |
|----------------------------|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
|----------------------------|---|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|----------------------------|----------------------|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight |
|----------------------------|----------------------|

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)

| | |
|----------------------------|--------------------------|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day |
|----------------------------|--------------------------|

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight/day OECD Test Guideline 407 |
|----------------------------|---|

| | |
|-------------------------------------|--|
| NOAEL (dermal, rat/rabbit, 90 days) | 670 mg/kg bodyweight/day OECD Test Guideline 410 |
|-------------------------------------|--|

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

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| | |
|----------------------|---|
| Viscosity, kinematic | 43.5 mm ² /s @ 40°C (ASTM D7042) |
|----------------------|---|

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

| | |
|----------------------|------------------------------------|
| Viscosity, kinematic | 1.99 – 847 mm ² /s 40°C |
|----------------------|------------------------------------|

C14-16-18 Alkyl phenol

| | |
|----------------------|-----------------------------|
| Viscosity, kinematic | 52 mm ² /s @40°C |
|----------------------|-----------------------------|

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

| | |
|----------------------|--|
| Viscosity, kinematic | 98 (98 – 108) mm ² /s @40°C |
|----------------------|--|

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

| | |
|----------------------|--|
| Viscosity, kinematic | 1.99 – 847 mm ² /s Temp.: '40°C |
|----------------------|--|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|----------------------|---|
| Viscosity, kinematic | 150 (1.99 – 847) mm ² /s @40°C |
|----------------------|---|

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Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil (64742-70-7)

Viscosity, kinematic 19 mm²/s @40°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

Not rapidly degradable

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

| | |
|------------------------|--|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 10000 mg/l Daphnia magna |
| NOEC chronic fish | 1000 mg/l Oncorhynchus mykiss (14d) |
| NOEC chronic crustacea | 10 mg/l Daphnia magna (21d) |
| NOEC chronic algae | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) |

C14-16-18 Alkyl phenol

| | |
|----------------------|--|
| LC50 - Fish [1] | > 100 mg/l Cyprinus carpio |
| EC50 - Crustacea [1] | > 100 mg/l Daphnia magna |
| EC50 72h - Algae [1] | > 100 mg/l Selenastrum capricornutum |
| NOEC chronic algae | 100 mg/l Selenastrum capricornutum (72h) |

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 Pseudokirchneriella subcapitata |
| 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) |

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

| | |
|------------------------|--|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 10000 mg/l Daphnia magna |
| NOEC chronic fish | ≥ 1000 mg/l Oncorhynchus mykiss |
| NOEC chronic crustacea | 10 mg/l Daphnia magna |
| NOEC chronic algae | ≥ 100 mg/l Pseudokirchneriella subcapitata |

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| 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 (14d) |
| NOEC chronic crustacea | > 10 mg/l Daphnia magna (21d) |
| NOEC chronic algae | > 100 mg/l Pseudokirchneriella subcapitata (72h) |
| 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) |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | |
| LC50 - Fish [1] | > 94.8 mg/l Oncorhynchus mykiss (OECD 203) |
| LC50 - Fish [2] | > 670 mg/l Oncorhynchus mykiss (OECD 203) |
| EC50 - Crustacea [1] | 50 mg/l Daphnia magna (OECD 202) |
| EC50 72h - Algae [1] | 14 mg/l Pseudokirchneriella subcapitata (OECD 201) |
| NOEC (chronic) | 100 mg/l |
| NOEC chronic fish | 94.8 mg/l (Oncorhynchus mykiss (rainbow trout) OECD Test Guideline 203 (96h) |
| NOEC chronic crustacea | 100 mg/l Daphnia magna (OECD 211) (21d) |
| NOEC chronic algae | 4.05 mg/l |
| 12.2. Persistence and degradability | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 31 % 28 d OECD 301F |
| C14-16-18 Alkyl phenol | |
| Biodegradation | 6 % OECD TG 301 B (28d) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 31 % OECD TG 301 F (28d) |
| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 31 % OECD 301F |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Biodegradation | 31 % OECD 301F (28d) |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1) | |
| Biodegradation | 31 % |

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Molybdenum polysulphide long chain alkyl dithiocarbamate complex

| | |
|----------------|---------------------------|
| Biodegradation | 23 % 29 Days (OECD 301 B) |
|----------------|---------------------------|

12.3. Bioaccumulative potential

C14-16-18 Alkyl phenol

| | |
|---|-------|
| Partition coefficient n-octanol/water (Log Kow) | > 7.2 |
|---|-------|

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

| | |
|---|---------|
| Partition coefficient n-octanol/water (Log Pow) | 3.9 – 6 |
|---|---------|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|-------------------------------------|-----|
| Bioconcentration factor (BCF REACH) | 260 |
|-------------------------------------|-----|

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

| | |
|----------------|------------------------------------|
| BCF - Fish [1] | 0.05 mg/l @ 25°C (Cyprinus carpio) |
|----------------|------------------------------------|

| | |
|-------------------------------------|----|
| Bioconcentration factor (BCF REACH) | 88 |
|-------------------------------------|----|

| | |
|---|------------|
| Partition coefficient n-octanol/water (Log Pow) | 5.1 @ 20°C |
|---|------------|

12.4. Mobility in soil

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

| | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

| | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

Molybdenum polysulphide long chain alkyl dithiocarbamate complex

| | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

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

| | |
|---|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| European List of Waste (LoW, EC 2000/532) | : 13 02 06* - synthetic engine, gear and lubricating oils |
| HP Code | : HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. |

SECTION 14: Transport information

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

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| 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

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)

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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 |
| | Supersedes | Added | |
| | Revision date | Added | |
| 5.1 | Unsuitable extinguishing media | Added | |
| 5.3 | Firefighting instructions | Added | |
| 5.3 | Precautionary measures fire | Added | |
| 6.1 | Protective equipment | Added | |
| 6.3 | For containment | Added | |
| 7.1 | Handling temperature | Added | |
| 7.1 | Precautions for safe handling | Modified | |
| 7.2 | Special rules on packaging | Added | |
| 7.2 | Storage area | Added | |
| 7.2 | Storage temperature | Added | |
| 7.2 | Technical measures | Added | |
| 8.2 | Personal protective equipment | Added | |

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 |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| 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 |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| 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 |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| EUH208 | Contains C14-16-18 Alkyl phenol, Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

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