Productcode 72060



WAVE POWER ADVANTAGE 10W-40

Semi Synthetic Passenger Car Engine oil

WAVE POWER ADVANTAGE 10W-40 is an universal high performance fuel saving semi synthetic oil for use in gasoline- and diesel engines of passenger cars and light vans with or without turbocharger. This product is unsuitable for diesel engines equipped with a Diesel Particulate Filter (DPF).

WAVE POWER ADVANTAGE 10W-40 is formulated with high quality refined mineral and synthetic base stocks in combination with a special additive technology to achieve the following performance:

- Very good low temperature properties.
- Protection to wear by cold start.
- Very high thermal and oxidation stability.
- Excellent resistance against foaming, corrosion and wear.
- High dispersancy and detergency level.
- High Viscosity Index

WAVE POWER ADVANTAGE 10W-40 meets the following performance criteria:

| Meets | API SN | ACEA A3/B3-16 | VW 501.01/505.00 |
|-------|----------|---------------|------------------|
| | MB 229.1 | | |

Suitable <- 2019 BMW LL-01 applications

Typical Analysis

| Properties | Unit | Method | Typical Value |
|-----------------------------|--------------------|-------------|---------------|
| | | | |
| SAE Grade | | SAE J300 | 10W-40 |
| Density @15°C | kg/m³ | ASTM 4052 | 856 |
| Kinematic Viscosity @ 40°C | mm²/s | ASTM D7042 | 87.6 |
| Kinematic Viscosity @ 100°C | mm²/s | ASTM D7042 | 13.6 |
| Viscosity Index | | ASTM D2270 | 160 |
| Viscosity CCS @ -25°C | сР | ASTM D5293 | 4700 |
| Flash Point COC | °C | ASTM D92 | >200 |
| Pour Point | °C | ASTM D7346 | -36 |
| Total Base Number | mgKOH/g | ASTM D2896 | 9.1 |
| Sulphated Ash | %Wt | ASTM D874 | 1.1 |
| Date Issued: 05-08–2022 | Supersedes: 18-01- | 2021 Revisi | on Nr.: 03 |



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/22/2011 Revision date: 4/13/2021 Supersedes version of: 2/25/2021 Version: 3.2

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

1.1. Product identifier

| Product form: MixtureProduct name: 72060 - WAVE POWER ADVANTAGE 10VProduct code: 72060Type of product: LubricantProduct group: Lubricant |
|--|
|--|

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

1.2.1. Relevant identified uses

Main use category

: Consumer use, Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

North Sea Lubricants B.V. B.V. Ampèrestraat 5 NL– 3846AN Harderwijk The Netherlands T +31 651345369 support@northsealubricants.com - www.northsealubricants.com

1.4. Emergency telephone number

Emergency number

: +31 (0)786527652 Monday to Friday: 09:00 - 16:00 (CET)

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

No additional information available

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

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 is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

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

| 3.2. Mixtures | | | | |
|---|--|-----------|---|--|
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil substance with national workplace exposure limit(s) (BG, CZ, DK, HR, NL); 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 | ≥ 75 | Asp. Tox. 1, H304 | |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil substance with national workplace exposure limit(s) (BE, BG, CZ, DK, HR, NL, NO); 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 | 2.5 – 10 | Asp. Tox. 1, H304 | |
| Distillates (petroleum), hydrotreated light paraffinic; Baseoil substance with national workplace exposure limit(s) (BE, NL) | CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077- 29 | 2.5 – 5 | Not classified | |
| Phosphorodithioic acid, mixed O,O-bis(1,3- dimethylbutyl and iso-Pr) esters, zinc salts substance with national workplace exposure limit(s) (DE, SK) | CAS-No.: 84605-29-8 EC-No.: 283-392-8 REACH-no: 01-2119493626- 26 | 0.5 – 2.5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 | |
| Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased | EC-No.: 701-251-5 REACH-no: 01-2119524004- 56 | 0.5 – 2.5 | Aquatic Chronic 4, H413 | |

| Specific concentration limits: | | | |
|--|--|---|--|
| Name | Product identifier | Specific concentration limits | |
| Phosphorodithioic acid, mixed O,O-bis(1,3- dimethylbutyl and iso-Pr) esters, zinc salts | CAS-No.: 84605-29-8 EC-No.: 283-392-8 REACH-no: 01-2119493626- 26 | (15 <c 100)="" 2,="" <="" h315<br="" irrit.="" skin="">(15 <c 2,="" 20)="" eye="" h319<br="" irrit.="" ≤="">(20 <c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c></c></c> | |

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

| SECTION 4: First aid measures | | | |
|--|---|--|--|
| 4.1. Description of first aid measures | | | |
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). | | |
| First-aid measures after inhalation | : Allow affected person to breathe fresh air. Allow the victim to rest. | | |
| First-aid measures after skin contact | Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. | | |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. | | |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. | | |
| 4.2. Most important symptoms and effects, both acute and delayed | | | |
| Symptoms/effects | : After adequate first aid, no further treatment is required unless symptoms reappear. Not expected to present a significant hazard under anticipated conditions of normal use. | | |
| Symptoms/effects after inhalation | : After adequate first aid, no further treatment is required unless symptoms reappear. | | |
| Symptoms/effects after skin contact | : After adequate first aid, no further treatment is required unless symptoms reappear. | | |
| Symptoms/effects after eye contact | : After adequate first aid, no further treatment is required unless symptoms reappear. | | |

Safety Data Sheet

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

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

No additional information available

| SECTION 5: Firefighting measures | |
|--|---|
| 5.1. Extinguishing media | |
| Suitable extinguishing media Unsuitable extinguishing media | Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream. |
| 5.2. Special hazards arising from the sub- | stance or mixture |
| No additional information available | |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

| SECTION 6: Accidental release measures | | | | |
|---|---|--|--|--|
| 6.1. Personal precautions, protective equip | pment and emergency procedures | | | |
| 6.1.1. For non-emergency personnel | | | | |
| Protective equipment | : Eliminate all ignition sources if safe to do so. | | | |
| Emergency procedures | : Evacuate unnecessary personnel. | | | |
| 6.1.2. For emergency responders | | | | |
| Protective equipment | : Wear suitable protective clothing, gloves and eye/face protection. Equip cleanup crew with proper protection. | | | |
| Emergency procedures | : Ventilate area. | | | |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

| 6.3. Methods and material for containment and cleaning up | | |
|---|---|--|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. | |
| | | |

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

| SECTION 7: Handling and storage | |
|---|--|
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. |
| 7.2. Conditions for safe storage, includi | ing any incompatibilities |
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. |
| Incompatible products | : Strong bases. Strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. |
| Storage temperature | : ≤45 °C |
| Storage area | : Store in a well-ventilated place. |
| Special rules on packaging | : Keep only in original container. Store in a closed container. |

Safety Data Sheet

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

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; Baseoil (64742-65-0) | | | |
|---|----------------------|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | | |
| IOEL TWA 5 mg/m ³ | | | |
| IOEL STEL | 10 mg/m ³ | | |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7) | | | |
| EU - Indicative Occupational Exposure Limit (IOEL) | | | |
| IOEL TWA 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

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

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

8.2.2.2. Skin protection

Hand protection:

Wear protective gloves.

Safety Data Sheet

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

| Hand protection | | | | | |
|-----------------|---|-------------------|----------------|-------------|------------|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Reusable gloves | Nitrile rubber (NBR), Neoprene rubber (HNBR) | 6 (> 480 minutes) | ≥ 0.35 | | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : Liquid |
|---|-----------------------|
| Colour | : brown. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : -36 °C |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : Not available |
| Upper explosive limit (UEL) | : Not available |
| Flash point | : > 201 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pН | : Not available |
| Viscosity, kinematic | : 88 mm²/s @40°C |
| 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 | : 857 kg/m³ @15°C |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : 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

Safety Data Sheet

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

| SECTION 10: Stability and reactivity |
|--|
| 10.1. Reactivity |
| No additional information available |
| 10.2. Chemical stability |
| Not established. |
| 10.3. Possibility of hazardous reactions |
| Not established. |
| 10.4. Conditions to avoid |
| Direct sunlight. Extremely high or low temperatures. |
| 10.5. Incompatible materials |
| Strong acids. Strong bases. |
| 10.6. Hazardous decomposition products |
| fume. Carbon monoxide. Carbon dioxide. |
| |
| SECTION 11: Toxicological information |

| 11.1. Information on hazard classes as defined | d in Regulation (EC) No 1272/2008 | | |
|---|--|--|--|
| Acute toxicity (dermal) | Not classified Not classified Not classified | | |
| Distillates (petroleum), solvent-dewaxed heav | y paraffinic; Baseoil (64742-65-0) | | |
| LD50 oral (rat) | > 5000 mg/kg bodyweight | | |
| LD50 dermal (rabbit) | > 5000 mg/kg | | |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 5.53 mg/l/4h | | |
| Distillates (petroleum), hydrotreated heavy pa | raffinic; Baseoil (64742-54-7) | | |
| LD50 oral (rat) | > 5000 mg/kg bodyweight | | |
| LD50 dermal (rabbit) | > 5000 mg/kg | | |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 5.53 mg/l/4h | | |
| Distillates (petroleum), hydrotreated light paraffinic; Baseoil (64742-55-8) | | | |
| LD50 oral (rat) | > 5000 mg/kg | | |
| LD50 dermal (rabbit) | > 5000 mg/kg | | |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h | | |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | | |
| LD50 oral (rat) | 3150 mg/kg | | |
| LD50 dermal (rat) | > 2002 mg/kg | | |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 2.3 mg/l/4h | | |
| Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased | | | |
| LD50 oral (rat) | > 5000 mg/kg | | |
| LD50 dermal (rabbit) | > 4000 µg/kg | | |

Safety Data Sheet

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

| Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased | | | | |
|--|--|--|--|--|
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 0.835 mg/l/4h | | | |
| Skin corrosion/irritation Additional information | Not classified Based on available data, the classification criteria are not met | | | |
| Serious eye damage/irritation | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| Respiratory or skin sensitisation | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| Germ cell mutagenicity | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| Carcinogenicity | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| Reproductive toxicity | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| STOT-single exposure | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| STOT-repeated exposure | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| Distillates (petroleum), solvent-dewaxed he | eavy paraffinic; Baseoil (64742-65-0) | | | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight | | | |
| NOAEL (dermal, rat/rabbit, 90 days) | ≈ 1000 mg/kg bodyweight | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7) | | | | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight | | | |
| Distillates (petroleum), hydrotreated light p | paraffinic; Baseoil (64742-55-8) | | | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) | | | |
| Phosphorodithioic acid, mixed O,O-bis(1,3 | -dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | | |
| NOAEL (oral, rat, 90 days) | 160 mg/kg bodyweight | | | |
| Aspiration hazard | : Not classified | | | |
| Additional information | : Based on available data, the classification criteria are not met | | | |
| 72060 - WAVE POWER ADVANTAGE 10W-40 | | | | |
| Viscosity, kinematic | 88 mm²/s @40°C | | | |
| 11.2. Information on other hazards | | | | |
| 11.2.1. Endocrine disrupting properties | | | | |
| No additional information available | | | | |
| 11.2.2. Other information | | | | |
| Potential adverse human health effects and | · Paced on available data, the classification criteria are not met | | | |

Potential adverse human health effects and : Based on available data, the classification criteria are not met symptoms

| SECTION 12: Ecological information | |
|---|------------------|
| 12.1. Toxicity | |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

Safety Data Sheet

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

| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil (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 | | |
| NOEC chronic crustacea | 10 mg/l Daphnia magna | | |
| NOEC chronic algae | > 100 mg/l Pseudokirchneriella subcapitata | | |
| Distillates (petroleum), hydrotreated heavy pa | iraffinic; Baseoil (64742-54-7) | | |
| 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 | | |
| Distillates (petroleum), hydrotreated light para | affinic; Baseoil (64742-55-8) | | |
| 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 | | |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dia | methylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | |
| LC50 - Fish [1] | 4.5 mg/l Oncorhynchus mykiss | | |
| EC50 - Crustacea [1] | 23 mg/l Daphnia magna | | |
| EC50 72h - Algae [1] | 24 mg/l Desmodesmus subspicatus | | |
| NOEC chronic crustacea | 0.4 mg/l Daphnia magna | | |
| NOEC chronic algae | 10 mg/l Desmodesmus subspicatus | | |
| Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased | | | |
| LC50 - Fish [1] | > 1000 mg/l Pimephales promelas | | |
| EC50 - Crustacea [1] | > 1000 mg/l Daphnia magna | | |
| EC50 96h - Algae [1] > 500 mg/l Pseudokirchneriella subcapitata | | | |
| 12.2. Devoietence and degradability | | | |

12.2. Persistence and degradability

| 72060 - WAVE POWER ADVANTAGE 10W-40 | | | |
|---|--|--|--|
| Persistence and degradability Not established. | | | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil (64742-65-0) | | | |
| Persistence and degradability | Persistence and degradability Not readily biodegradable. | | |
| Biodegradation | 31 % 28 d OECD 301F | | |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7) | | | |
| Persistence and degradability Not readily biodegradable. | | | |
| Biodegradation 31 % 28 d OECD 301F | | | |

Safety Data Sheet

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

| Distillates (petroleum), hydrotreated light paraffinic; Baseoil (64742-55-8) | | | | | |
|---|---|--|--|--|--|
| Biodegradation | 31 % 28 d, OECD TG 301 F | | | | |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | | | | |
| Persistence and degradability Not readily biodegradable. | | | | | |
| Biodegradation | 1.5 % 28 Days (OECD 301 B) | | | | |
| Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased | | | | | |
| Persistence and degradability | Not readily biodegradable. | | | | |
| Biodegradation | 13.4 % OECD 301B 28 days | | | | |
| 12.3. Bioaccumulative potential | | | | | |
| 72060 - WAVE POWER ADVANTAGE 10W-4 | 40 | | | | |
| Bioaccumulative potential | Not established. | | | | |
| Distillates (petroleum), solvent-dewaxed he | avy paraffinic; Baseoil (64742-65-0) | | | | |
| Bioconcentration factor (BCF REACH) | 260 | | | | |
| Partition coefficient n-octanol/water (Log Pow) | 9.2 | | | | |
| Distillates (petroleum), hydrotreated heavy | paraffinic; Baseoil (64742-54-7) | | | | |
| Partition coefficient n-octanol/water (Log Kow) | > 4 | | | | |
| Distillates (petroleum), hydrotreated light p | araffinic; Baseoil (64742-55-8) | | | | |
| Partition coefficient n-octanol/water (Log Pow) | > 6 | | | | |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | | | | |
| Partition coefficient n-octanol/water (Log Pow) | 0.56 | | | | |
| Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased | | | | | |
| Partition coefficient n-octanol/water (Log Pow) | 9.5 | | | | |
| 12.4. Mobility in soil | | | | | |
| Phosphorodithioic acid, mixed O,O-bis(1,3- | dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | | | |
| 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 | | | | | |
| Additional information | : Avoid release to the environment. | | | | |
| | | | | | |
| SECTION 13: Disposal considerations | | | | | |
| 13.1. Waste treatment methods | | | | | |
| Product/Packaging disposal recommendations Ecology - waste materials | Dispose in a safe manner in accordance with local/national regulations.Avoid release to the environment. | | | | |

Safety Data Sheet

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

| SECTION 14: Transport information | | | | |
|--|-----------------------|---------------------------------------|----------------|----------------|
| n accordance with ADR / IMI | DG / IATA / ADN / RID | | | |
| ADR | IMDG | ΙΑΤΑ | ADN | RID |
| 14.1. UN number or ID n | umber | · · · · · · | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shippin | g name | · · · · · · · · · · · · · · · · · · · | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard 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 hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

Safety Data Sheet

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Composition/information on ingredients.

| Indication of changes | | | |
|-----------------------|---------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | SDS EU format | Added | |
| | Revision date | Modified | |
| | Supersedes | Modified | |
| | Flammability (solid, gas) | Modified | |
| 1.2 | Industrial/Professional use spec | Added | |
| 1.2 | Main use category | Added | |
| 4.1 | First-aid measures general | Added | |
| 4.1 | First-aid measures after skin contact | Modified | |
| 4.1 | First-aid measures after inhalation | Modified | |
| 4.1 | First-aid measures after ingestion | Modified | |
| 4.1 | First-aid measures after eye contact | Modified | |
| 4.2 | Symptoms/effects | Modified | |
| 5.1 | Unsuitable extinguishing media | Modified | |
| 5.1 | Suitable extinguishing media | Modified | |
| 5.3 | Firefighting instructions | Added | |
| 5.3 | Protection during firefighting | Modified | |
| 6.1 | Emergency procedures | Added | |
| 6.1 | Emergency procedures | Modified | |
| 6.1 | Protective equipment | Modified | |
| 6.2 | Environmental precautions | Modified | |
| 6.3 | Methods for cleaning up | Modified | |
| 6.4 | Reference to other sections (8, 13) | Modified | |
| 7.1 | Precautions for safe handling | Modified | |
| 7.2 | Incompatible products | Added | |
| 7.2 | Incompatible materials | Added | |
| 7.2 | Storage conditions | Modified | |
| 8.2 | Other information | Added | |
| 8.2 | Respiratory protection | Added | |
| 8.2 | Personal protective equipment | Added | |
| 8.2 | Hand protection | Added | |
| 8.2 | Eye protection | Added | |

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 |
| 9.1 | Density | Modified | |
| 10.2 | Chemical stability | Modified | |
| 10.3 | Possibility of hazardous reactions | Modified | |
| 10.4 | Conditions to avoid | Modified | |
| 10.5 | Incompatible materials | Added | |
| 10.6 | Hazardous decomposition products | Modified | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Potential adverse human health effects and symptoms | Added | |
| 12.2 | Persistence and degradability | Added | |
| 12.3 | Bioaccumulative potential | Added | |
| 13.1 | Ecology - waste materials | Added | |
| 13.1 | Waste disposal recommendations | Added | |
| 16 | Data sources | Added | |
| 16 | Other information | Added | |

Data sources

 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 None.

Other information

Full text of H- and EUH-statements:

| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | |
|---|--|
| Hazardous to the aquatic environment — Chronic Hazard, Category 4 | |
| Aspiration hazard, Category 1 | |
| Safety data sheet available on request. | |
| Serious eye damage/eye irritation, Category 1 | |
| Serious eye damage/eye irritation, Category 2 | |
| May be fatal if swallowed and enters airways. | |
| Causes skin irritation. | |
| Causes serious eye damage. | |
| Causes serious eye irritation. | |
| | |

Safety Data Sheet

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

| Full text of H- and EUH-statements: | | |
|-------------------------------------|---|--|
| H411 | Toxic to aquatic life with long lasting effects. | |
| H413 | May cause long lasting harmful effects to aquatic life. | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |

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.