

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/7/2010 Revision date: 3/24/2023 Supersedes version of: 9/13/2019 Version: 4.0

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

1.1. Product identifier

Product form : Mixture

Product name : LUB006027 - Rymax Hydra ZF 46

Product code : LUB006027

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 : 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

Rymax Lubricants B.V.

Delweg, 8

NL- 6902 PJ Zevenaar - Netherlands

Netherlands

T tel: +31 (0) 316 740 856

info@rymax-lubricants.com - www.rymax-lubricants.com

1.4. Emergency telephone number

Emergency number : +31 (0) 316 740 856

| 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]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

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]

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P501 - Dispose of contents and container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as

non-hazardous waste.

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2.3. Other hazards

Other hazards which do not result in classification

: Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. Spills of this product present a serious slipping hazard.

Contains no PBT/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 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 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] |
|---|--|---------------|--|
| 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 | ≥ 55 – < 75 | Not classified |
| 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 | ≥ 25 – < 45 | Not classified |
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, GB, IE, LV, NL, RO, SE, CH); substance with a Community workplace exposure limit | EC-No.: 922-153-0 REACH-no: 01-2119451097- 39 | ≥ 0.1 – < 0.3 | Asp. Tox. 1, H304 Aquatic Chronic 2, H411 (M=0) |
| N-Phenyl-1-naphthylamin substance with national workplace exposure limit(s) (DE, NL) | CAS-No.: 90-30-2 EC-No.: 201-983-0 | < 0.1 | Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 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- | < 0.1 | Asp. Tox. 1, H304 |
| Distillates (petroleum), solvent-refined heavy paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit | CAS-No.: 64741-88-4 EC-No.: 265-090-8 EC Index-No.: 649-454-00-7 REACH-no: 01-2119488706- 23 | < 0.1 | Not classified |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-------|---|
| Octylamine substance with national workplace exposure limit(s) (LV) | CAS-No.: 111-86-4 EC-No.: 203-916-0 REACH-no: 01-2119474880- 31 | < 0.1 | Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| 1-naphtol substance with national workplace exposure limit(s) (LT, LV, RO) | CAS-No.: 90-15-3 EC-No.: 201-969-4 EC Index-No.: 604-029-00-5 | < 0.1 | Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 |

| Specific concentration limits: | | | | |
|--------------------------------|---------------------------------------|--------------------------------|--|--|
| Name | Product identifier | Specific concentration limits | | |
| N-Phenyl-1-naphthylamin | CAS-No.: 90-30-2 EC-No.: 201-983-0 | (10 ≤C < 100) STOT RE 2, H373 | | |

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 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

Symptoms/effects : After adequate first aid, no further treatment is required unless symptoms reappear. Symptoms/effects after inhalation : 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. Symptoms/effects after eye contact : After adequate first aid, no further treatment is required unless symptoms reappear. Symptoms/effects after ingestion : After adequate first aid, no further treatment is required unless symptoms reappear.

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.

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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

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

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.

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

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | | | |
|--|--|--|--|
| United Kingdom - Occupational Exposure Limits | | | |
| WEL TWA (OEL TWA) [1] 5 mg/m³ | | | |

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| Distillates (pe | etroleum), so | lvent-dewaxed | heavy p | araffinic (| 64742-65-0) |
|-----------------|---------------|---------------|---------|-------------|-------------|
| | | | | | |

WEL STEL (OEL STEL) 10 mg/m³

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

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1] 5 mg/m³

Hydrocarbons, C10-C13, aromatics, <1% naphthalene

United Kingdom - Occupational Exposure Limits

| WEL TWA (OEL TWA) [1] | 5 mg/m³ |
|-----------------------|----------|
| WEL STEL (OEL STEL) | 10 mg/m³ |

Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)

United Kingdom - Occupational Exposure Limits

| WEL TWA (OEL TWA) [1] | 5 mg/m³ |
|-----------------------|----------|
| WEL STEL (OEL STEL) | 10 mg/m³ |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

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

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Hand protection:

Protective gloves

| 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:

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 : light yellow.

Odour : Not available

Odour threshold : Not available

Melting point : Not applicable

Freezing point : -21 °C (ASTM D7346)

Boiling point : Not available
Flammability : Non flammable.
Explosive limits : Not available
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 : Not available

Viscosity, kinematic : 47 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 : 872 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

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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

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

| Acute toxicity (initialation) | . Not classified | | | |
|---|---|--|--|--|
| 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 | | | |
| Distillates (petroleum), hydrotreated heav | y 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 | | | |
| N-Phenyl-1-naphthylamin (90-30-2) | | | | |
| LD50 oral (rat) | 1625 mg/kg Animal: rat, Animal sex: male, 95% CL: 1201 - 2197 | | | |
| LD50 dermal (rabbit) | > 5000 mg/kg | | | |
| Hydrocarbons, C10-C13, aromatics, <1% | naphthalene | | | |
| LD50 oral (rat) | > 6318 mg/kg | | | |
| LD50 dermal (rat) | > 2000 mg/kg | | | |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 4.778 mg/l/4h | | | |
| 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 | | | |

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| Lubricating oils (petroleum), C15-30, hydro | otreated neutral oil-based (72623-86-0) |
|--|--|
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test |
| Distillates (petroleum), solvent-refined hea | avy paraffinic (64741-88-4) |
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rabbit) | > 2000 mg/kg |
| LC50 inhalation (rat) (mg/l) | > 5000 mg/m³ |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | 5.53 mg/l/4h |
| Octylamine (111-86-4) | |
| LD50 oral (rat) | 200 mg/kg bw/day |
| LD50 dermal (rabbit) | 200 – 2000 mg/kg |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | 1.6 mg/l/4h |
| 1-naphtol (90-15-3) | |
| LD50 oral (rat) | 1870 mg/kg |
| LD50 dermal (rabbit) | 880 mg/kg |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 97 mg/l/4h |
| Skin corrosion/irritation | : Not classified |
| Octylamine (111-86-4) | |
| рН | 11.8 Temp.: 25 °C Concentration: 10 other:g / 100 ml |
| Serious eye damage/irritation | : Not classified |
| Octylamine (111-86-4) | |
| рН | 11.8 Temp.: 25 °C Concentration: 10 other:g / 100 ml |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity Carcinogenicity | : Not classified : Not classified |
| Reproductive toxicity | : Not classified |
| N-Phenyl-1-naphthylamin (90-30-2) | |
| NOAEL (animal/male, F0/P) | < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) |
| NOAEL (animal/female, F0/P) | < 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) |
| Octylamine (111-86-4) | |
| NOAEL (animal/male, F0/P) | 100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (animal/female, F0/P) | 100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| STOT-single exposure | : Not classified |
| Octylamine (111-86-4) | |
| STOT-single exposure | May cause respiratory irritation. |

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| 1-naphtol (90-15-3) | | |
|---|---|--|
| STOT-single exposure | May cause respiratory irritation. | |
| STOT-repeated exposure : Not classified | | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight | |
| Distillates (petroleum), hydrotreated heavy pa | araffinic (64742-54-7) | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 | |
| N-Phenyl-1-naphthylamin (90-30-2) | | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. | |
| Hydrocarbons, C10-C13, aromatics, <1% napl | nthalene | |
| NOAEL (oral, rat, 90 days) | 300 mg/kg bodyweight OECD Guideline 408 | |
| NOAEL (subchronic, oral, animal/male, 90 days) | 300 mg/kg bodyweight | |
| Lubricating oils (petroleum), C15-30, hydrotre | eated neutral oil-based (72623-86-0) | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight | |
| 1-naphtol (90-15-3) | | |
| NOAEL (subchronic, oral, animal/male, 90 days) | 130 mg/kg bodyweight | |
| Aspiration hazard : | Not classified | |
| LUB006027 - Rymax Hydra ZF 46 | | |
| Viscosity, kinematic | 47 mm²/s @ 40°C (ASTM D7042) | |
| Distillates (petroleum), solvent-dewaxed heav | y paraffinic (64742-65-0) | |
| Viscosity, kinematic | 150 (1.99 – 847) mm²/s @40°C | |
| Distillates (petroleum), hydrotreated heavy pa | araffinic (64742-54-7) | |
| Viscosity, kinematic | 98 (98 – 108) mm²/s @40°C | |
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | | |
| Viscosity, kinematic | 4.25 mm²/s | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | | |
| Viscosity, kinematic | 1.99 – 847 mm²/s 40°C | |
| Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4) | | |
| Viscosity, kinematic | 28.51 mm²/s @40°C | |
| Octylamine (111-86-4) | | |
| Viscosity, kinematic | 1.756 mm²/s | |
| 44.0 Information on other bounds | | |

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.

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Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

| (Cirionic) | |
|--|--|
| Distillates (petroleum), solvent-dewaxed heav | y 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) |
| Distillates (petroleum), hydrotreated heavy pa | raffinic (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 (14d) |
| NOEC chronic crustacea | 10 mg/l Daphnia magna (21d) |
| NOEC chronic algae | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) |
| N-Phenyl-1-naphthylamin (90-30-2) | |
| LC50 - Fish [1] | 0.44 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 0.3 mg/l Daphnia magna |
| EC50 96h - Algae [1] | 0.93 mg/l Pseudokirchneriella subcapitata |
| NOEC chronic crustacea | 0.032 mg/l Daphnia magna (21d) |
| NOEC chronic algae | 0.032 mg/l Daphnia magna (21d) |
| Hydrocarbons, C10-C13, aromatics, <1% naph | nthalene |
| LC50 - Fish [1] | 3.6 mg/l (Oncorhynchus mykiss, OECD 203) |
| EC50 - Crustacea [1] | 1.1 mg/l (OECD 202) |
| ErC50 algae | 3.8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201) |
| NOEC chronic fish | 0.103 mg/l 28 d (PETROTOX QSAR) |
| NOEC chronic crustacea | 0.179 mg/l 21 d (Daphnia magna, OECD 211) |
| NOEC chronic algae | 0.179 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201) |
| Lubricating oils (petroleum), C15-30, hydrotre | ated 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) |
| Distillates (petroleum), solvent-refined heavy | paraffinic (64741-88-4) |
| 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) |
| | |

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| Distillates (petroleum), solvent-refined heavy | paraffinic (64741-88-4) | | |
|--|---|--|--|
| NOEC chronic algae | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) | | |
| Octylamine (111-86-4) | | | |
| LC50 - Fish [1] | 5.19 mg/l Pimephales promelas | | |
| EC50 - Crustacea [1] | 1.9 mg/l Daphnia magna | | |
| EC50 72h - Algae [1] | 0.23 mg/l Desmodesmus subspicatus | | |
| NOEC chronic algae | 0.07 mg/l Desmodesmus subspicatus (72h) | | |
| 1-naphtol (90-15-3) | | | |
| LC50 - Fish [1] | 0.33 mg/l M. cavasius | | |
| EC50 - Crustacea [1] | 2.51 mg/l Daphnia magna | | |
| EC50 72h - Algae [1] | > 2.18 mg/l Pseudokirchneriella subcapitata | | |
| NOEC chronic crustacea | 0.25 mg/l Daphnia magna (21d) | | |
| NOEC chronic algae | > 2.18 mg/l Pseudokirchneriella subcapitata (72h) | | |
| 12.2. Persistence and degradability | | | |
| Distillates (petroleum), solvent-dewaxed heav | y paraffinic (64742-65-0) | | |
| Biodegradation | 31 % OECD 301F (28d) | | |
| Distillates (petroleum), hydrotreated heavy pa | araffinic (64742-54-7) | | |
| Persistence and degradability | Not readily biodegradable. | | |
| Biodegradation | < 60 % OECD 301F (28d) | | |
| N-Phenyl-1-naphthylamin (90-30-2) | | | |
| Persistence and degradability | Not readily biodegradable. | | |
| Biodegradation | 0 % 28d | | |
| Hydrocarbons, C10-C13, aromatics, <1% naph | nthalene | | |
| Persistence and degradability | Readily biodegradable. | | |
| Biodegradation | 70 % 28d OECD 301F | | |
| Lubricating oils (petroleum), C15-30, hydrotre | eated neutral oil-based (72623-86-0) | | |
| Persistence and degradability | Not readily biodegradable. | | |
| Biodegradation | 31 % 28 d OECD 301F | | |
| Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4) | | | |
| Persistence and degradability | Not readily biodegradable. | | |
| Biodegradation | 31 % OECD 301F (28d) | | |
| Octylamine (111-86-4) | | | |
| Persistence and degradability | Readily biodegradable. | | |
| Biodegradation | 99 % 11d | | |
| 1-naphtol (90-15-3) | | | |
| Biodegradation | 77.8 % OECD 301B (29d) | | |

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12.3. Bioaccumulative potential

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | | |
|--|--|--|
| 260 | | |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | | |
| 3.9 – 6 | | |
| | | |
| 1424 | | |
| 4.28 | | |
| nthalene | | |
| 5780 | | |
| 6.5 | | |
| Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4) | | |
| 3.9 – 6 | | |
| Octylamine (111-86-4) | | |
| 2.9 | | |
| 1-naphtol (90-15-3) | | |
| 2.85 | | |
| | | |

12.4. Mobility in soil

| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | |
|--|------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.11 @20°C |
| | |

| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
|---|------------------------|
| 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 Product/Packaging disposal recommendations

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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HP Code

- : 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

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

| ADR | IMDG | IATA | ADN | RID |
|-----------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|
| I4.1. 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 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 | ards | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary informatio | • | | | |

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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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 |
| | Supersedes | Modified | |
| | Revision date | Modified | |
| | Flammability (solid, gas) | Added | |
| 2.1 | Adverse physicochemical, human health and environmental effects | Added | |
| 3 | Composition/information on ingredients | Modified | |
| 4.1 | First-aid measures after skin contact | Added | |
| 4.1 | First-aid measures after inhalation | Added | |
| 4.1 | First-aid measures after ingestion | Added | |
| 4.1 | First-aid measures after eye contact | Added | |
| 4.3 | Other medical advice or treatment | Added | |
| 5.1 | Suitable extinguishing media | Added | |
| 5.2 | Hazardous decomposition products in case of fire | Added | |

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| Indication of changes | | | |
|-----------------------|-------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 5.3 | Protection during firefighting | Added | |
| 6.1 | Emergency procedures | Added | |
| 6.1 | Protective equipment | Added | |
| 6.2 | Environmental precautions | Added | |
| 6.3 | Methods for cleaning up | Added | |
| 6.3 | Other information | Added | |
| 6.4 | Reference to other sections (8, 13) | Added | |
| 7.1 | Precautions for safe handling | Added | |
| 7.1 | Hygiene measures | Added | |
| 7.2 | Storage conditions | Added | |
| 7.2 | Storage temperature | Modified | |
| 8.2 | Environmental exposure controls | Added | |
| 8.2 | Respiratory protection | Added | |
| 8.2 | Hand protection | Added | |
| 8.2 | Eye protection | Added | |
| 8.2 | Appropriate engineering controls | Added | |
| 8.2 | Skin and body protection | Added | |
| 9.1 | Viscosity, kinematic | Modified | |
| 9.1 | Freezing point | Modified | |
| 9.1 | Flash point | Modified | |
| 9.1 | Density | Modified | |
| 10.1 | Reactivity | Added | |
| 10.2 | Chemical stability | Added | |
| 10.3 | Possibility of hazardous reactions | Added | |
| 10.4 | Conditions to avoid | Added | |
| 10.6 | Hazardous decomposition products | Added | |
| 12.1 | Ecology - general | Added | |
| 13.1 | Waste treatment methods | Added | |
| 13.1 | Waste disposal recommendations | Modified | |
| 15.2 | Chemical safety assessment | Added | |
| 16 | Abbreviations and acronyms | 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 | |

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| Abbreviations and acronyms: | | |
|-----------------------------|--|--|
| 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 | |
| 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: | | |
|-------------------------------------|---|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 | |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 | |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 | |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 | |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 | |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Safety Data Sheet (SDS), EU RYMAX 2023

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.