

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 1 of 13

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

ADDINOL Transmission Oil GH 80W-90

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

Gearbox oil.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

| | | |
|-------------------------|--------------------------------|-------------------------------|
| Company name: | ADDINOL Lube Oil GmbH | |
| | Gebäude 4609 | |
| Street: | Am Haupttor | |
| Place: | D-06237 Leuna | |
| Telephone: | +49 (0) 3461 845-0 | Telefax: +49 (0) 3461 845-555 |
| e-mail: | info@addinol.de | |
| Contact person: | Application Technology | |
| Internet: | www.addinol.de | |
| Responsible Department: | ADDINOL Application Technology | |

Supplier

| | | |
|---------------|--|--------------------------|
| Company name: | Specialised Products (Western) Limited | |
| Street: | 76 Cobham Road, Ferndown Industrial Estate | |
| Place: | GB-BH21 7RN Wimborne, Dorset | |
| Telephone: | +44 1202 891393 | Telefax: +44 1202 876908 |
| e-mail: | sales@specialisedproducts.co.uk | |
| Internet: | http://specialisedproducts.co.uk | |

1.4. Emergency telephone number:

+44 1202 891393 - This number is serviced during office hours.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

2.2. Label elements**GB CLP Regulation****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

| | |
|------|---|
| P273 | Avoid release to the environment. |
| P501 | Dispose of contents/container to a waste disposal system. |

Special labelling of certain mixtures

| | |
|--------|---|
| EUH208 | Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction. |
|--------|---|

Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 2 of 13

2.3. Other hazards

- Prolonged/repetitive skin contact may cause skin defatting or dermatitis.
- Spilled product must not leak into the ground.
- Do not allow uncontrolled leakage of product into the environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | Quantity |
|--------------|---|---------------|
| | EC No | |
| | Index No | |
| | REACH No | |
| | Classification (GB CLP Regulation) | |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | 50 - < 60 % |
| | 265-157-1 | |
| | 01-2119484627-25 | |
| | Asp. Tox. 1; H304 | |
| | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | 0.1 - < 0.3 % |
| | 931-384-6 | |
| | 01-2119493620-38 | |
| | Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H302 H319 H317 H411 | |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | < 0.1 % |
| | 701-175-2 | |
| | 01-2119456798-18 | |
| | Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H318 H317 H400 H410 | |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | < 0.1 % |
| | 627-034-4 | |
| | 01-2119473797-19 | |
| | Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H335 H373 H304 H400 H410 | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--------------|-----------|--|---------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 64742-54-7 | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | 50 - < 60 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| | 931-384-6 | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | 0.1 - < 0.3 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg Skin Sens. 1; H317: >= 10 - 100 | |
| 68955-53-3 | 701-175-2 | Amines, C10-C14-tert-alkyl | < 0.1 % |
| | | inhalation: LC50 = >= 157 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 251 mg/kg; oral: LD50 = > 500 mg/kg M acute; H400: M=1 M chron.; H410: M=1 | |
| 1213789-63-9 | 627-034-4 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | < 0.1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1689 mg/kg M acute; H400: M=10 M chron.; H410: M=10 | |

Further Information

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 3 of 13

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO₂). Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NO_x). carbon black.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 4 of 13

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents.

Further information on storage conditions

Recommended storage temperature: 5 - 40°C

Protect against: heat. UV-radiation/sunlight. frost.

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 5 of 13

DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|---|----------|-------------------------|
| DNEL type | Exposure route | Effect | Value |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | | |
| Worker DNEL, long-term | inhalation | systemic | 2,73 mg/m ³ |
| Worker DNEL, long-term | inhalation | local | 5,58 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 0,97 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | local | 1,19 mg/m ³ |
| Consumer DNEL, long-term | oral | systemic | 0,74 mg/kg bw/day |
| | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | |
| Worker DNEL, long-term | inhalation | systemic | 4,28 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 12,5 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 1,09 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 6,25 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,25 mg/kg bw/day |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | | |
| Worker DNEL, long-term | inhalation | systemic | 12,5 mg/m ³ |
| Worker DNEL, long-term | inhalation | local | 12,1 mg/m ³ |
| Consumer DNEL, long-term | inhalation | systemic | 2,5 mg/m ³ |
| Consumer DNEL, long-term | inhalation | local | 1,2 mg/m ³ |
| Consumer DNEL, long-term | oral | systemic | 0,35 mg/kg bw/day |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | | |
| Worker DNEL, long-term | inhalation | systemic | 0,38 mg/m ³ |
| Worker DNEL, long-term | inhalation | local | 1 mg/m ³ |
| Worker DNEL, acute | inhalation | local | 1 mg/m ³ |
| Consumer DNEL, long-term | inhalation | systemic | 0,035 mg/m ³ |
| Consumer DNEL, long-term | oral | systemic | 0,04 mg/kg bw/day |

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 6 of 13

PNEC values

| CAS No | Substance | Value |
|---|--|---------------|
| Environmental compartment | | |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | |
| Secondary poisoning | | 9,33 mg/kg |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | |
| Freshwater | | 0,0024 mg/l |
| Freshwater (intermittent releases) | | 0,15 mg/l |
| Marine water | | 0,00024 mg/l |
| Freshwater sediment | | 0,0129 mg/kg |
| Marine sediment | | 0,00129 mg/kg |
| Secondary poisoning | | 10 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 24,33 mg/l |
| Soil | | 0,00117 mg/kg |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | |
| Freshwater | | 0,001 mg/l |
| Freshwater (intermittent releases) | | 0,004 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 2,14 mg/kg |
| Marine sediment | | 0,214 mg/kg |
| Secondary poisoning | | 4,71 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,635 mg/l |
| Soil | | 0,428 mg/kg |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | |
| Freshwater | | 0,00026 mg/l |
| Freshwater (intermittent releases) | | 0,0016 mg/l |
| Marine water | | 0,000026 mg/l |
| Freshwater sediment | | 3,76 mg/kg |
| Marine sediment | | 0,376 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,55 mg/l |
| Soil | | 10 mg/kg |

Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m³

STEL: 10 mg/m³

The product does not contain any relevant quantities of substances with legally established exposure limitation.

8.2. Exposure controls



Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 7 of 13

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|------------------|--------------------|
| Physical state: | liquid |
| Colour: | yellow - brown |
| Odour: | like: mineral oil. |
| Odour threshold: | not determined |

Test method**Changes in the physical state**

| | |
|---|------------------------|
| Melting point/freezing point: | No data available |
| Boiling point or initial boiling point and boiling range: | not determined |
| Pour point: | -33 °C ASTM D 7346 |
| Flash point: | 215 °C DIN EN ISO 2592 |

Flammability

| | |
|---------------|-------------------|
| Solid/liquid: | No data available |
| Gas: | No data available |

Explosive properties

No data available

| | |
|----------------------------|-------------------|
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Auto-ignition temperature: | not determined |

Self-ignition temperature

| | |
|--------|-------------------|
| Solid: | No data available |
| Gas: | No data available |

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 8 of 13

| | |
|--|-------------------------------------|
| Decomposition temperature: | No data available |
| pH-Value: | not applicable |
| Viscosity / kinematic: (at 100 °C) | 17,5 mm ² /s ASTM D 7042 |
| Water solubility: | virtually insoluble |
| Solubility in other solvents No data available | |
| Partition coefficient n-octanol/water: | No data available |
| Vapour pressure: | No data available |
| Density (at 15 °C): | 0,889 g/cm ³ DIN 51757 |
| Relative vapour density: | No data available |

9.2. Other information**Information with regard to physical hazard classes**

Oxidizing properties
No data available

Other safety characteristics

Evaporation rate: No data available

Further information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

10.5. Incompatible materials

Reacts with: Oxidizing agents, strong. Acid.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Sulfur oxides. Phosphorus oxides.
Nitrogen oxides (NO_x). carbon black.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.
Mixture not tested.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 9 of 13

| CAS No | Chemical name | | | | |
|--------------|---|----------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1982) | OECD Guideline 401 |
| | dermal | LD50 > 5000 mg/kg | Rabbit | Study report (1982) | OECD Guideline 402 |
| | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (1995) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | | |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | | | | |
| | oral | LD50 > 500 mg/kg | Rat | Study report (1993) | OECD Guideline 401 |
| | dermal | LD50 251 mg/kg | Rat | Study report (1993) | OECD Guideline 402 |
| | inhalation (4 h) vapour | LC50 >= 157 mg/l | Rat | Study report (2001) | OECD Guideline 403 |
| | inhalation dust/mist | ATE 0,05 mg/l | | | |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | | | | |
| | oral | LD50 1689 mg/kg | Rat | Study report (1993) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1985) | OECD Guideline 402 |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposureBased on available data, the classification criteria are not met.
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.**Aspiration hazard**

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

not applicable

SECTION 12: Ecological information**12.1. Toxicity**

No data available

Mixture not tested.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 10 of 13

| CAS No | Chemical name | | | | | |
|--------------|---|----------------------|-----------|---|-----------------------------------|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | | | | | |
| | Acute fish toxicity | LL50 > 100 mg/l | 96 h | Pimephales promelas | Study report (1995) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 >100 mg/l | 72 h | | | |
| | Fish toxicity | NOEC >= 1000 mg/l | 14 d | Oncorhynchus mykiss | CONCAWE, Brussels, Belgium (2010) | The aquatic toxicity was estimated by a |
| | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | | | | |
| | Acute fish toxicity | LL50 ca. 24 mg/l | 96 h | Oncorhynchus mykiss | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 6,4 mg/l | 96 h | Pseudokirchneriella subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 ca. 91,4 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| | Acute bacteria toxicity | (EC50 ca. 2433 mg/l) | 3 h | activated sludge, domestic | REACH Registration Dossier | OECD Guideline 209 |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | | | | | |
| | Acute fish toxicity | LC50 1,3 mg/l | 96 h | Oncorhynchus mykiss | Study report (1994) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 0,44 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (1994) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 4,1 mg/l | 48 h | Daphnia magna | Study report (1984) | OECD Guideline 202 |
| | Fish toxicity | NOEC 0,078 mg/l | 96 d | Oncorhynchus mykiss | Study report (2002) | OECD Guideline 210 |
| | Acute bacteria toxicity | (EC50 63,5 mg/l) | 0,5 h | activated sludge of a predominantly domestic sewage | Study report (2008) | OECD Guideline 209 |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | | | | | |
| | Acute fish toxicity | LC50 0,84 mg/l | 96 h | Danio rerio | Study report (2006) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 0,39 mg/l | 72 h | Desmodesmus subspicatus | Study report (2002) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 0,32 mg/l | 48 h | Daphnia magna | Study report (2006) | OECD Guideline 202 |
| | Crustacea toxicity | NOEC 0,013 mg/l | 21 d | Daphnia magna | Study report (2002) | OECD Guideline 211 |
| | Acute bacteria toxicity | (EC50 32 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | Study report (1989) | OECD Guideline 209 |

12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

12.3. Bioaccumulative potential

No data available

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 11 of 13

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|--------------|---|---------|
| | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | < 0,3 |
| 68955-53-3 | Amines, C10-C14-tert-alkyl | 2,9 |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | 5,16 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------------|---|-----|----------------------|----------------------|
| | Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | 436 | Onchorhynchus mykiss | REACH Registration D |
| 1213789-63-9 | (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | 173 | | Environmental Toxico |

12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

Further information

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

SECTION 14: Transport information**Land transport (ADR/RID)**

- 14.1. UN number or ID number:** -
14.2. UN proper shipping name: -
14.3. Transport hazard class(es): -
14.4. Packing group: -

Inland waterways transport (ADN)

- 14.1. UN number or ID number:** -

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 12 of 13

14.2. UN proper shipping name: -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Marine transport (IMDG)****14.1. UN number or ID number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 4,5,6,7,9,11,12,16.

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Transmission Oil GH 80W-90

Revision date: 30.11.2022

Product code: 743007

Page 13 of 13

- Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal 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. |
| EUH208 | Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction. |

Further Information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)