

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Eco Grease PD 2-400 PLUS

Revision date: 07.02.2025

Product code: 718006

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

ADDINOL Eco Grease PD 2-400 PLUS

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

Lubricant and additive.

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: | GEM OILS LIMITED | |
| Place: | IRL-H12K298 Regaskin Co. Cavan | |
| Telephone: | +353 49 4378116 | Telefax: +353 49 4368329 |
| E-mail: | sales@gemoils.ie | |
| Contact person: | GEM OILS LIMITED | Telephone: +353 49 4378116 |
| E-mail: | sales@gemoils.ie | |
| Internet: | https://gemoils.ie/ | |

1.4. Emergency telephone number:

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

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

2.2. Label elements**Regulation (EC) No 1272/2008****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 industrial incineration plant.

Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

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.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|-------------|--|----------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | | | 60 - < 80 % |
| | 500-183-1 | | 01-2119486452-34 | |
| | Asp. Tox. 1; H304 | | | |
| 64742-52-5 | Distillates (petroleum), hydrotreated heavy naphthenic; base oil - not specified | | | 10 - < 20 % |
| | 265-155-0 | | 01-2119467170-45 | |
| | Asp. Tox. 1; H304 | | | |
| 126019-82-7 | Thiophosphoric Acid Ester | | | 1 - < 2.5 % |
| | 406-940-1 | | | |
| | Aquatic Chronic 2; H411 | | | |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | 1 - < 2.5 % |
| | 224-235-5 | | 01-2119493635-27 | |
| | Eye Dam. 1, Aquatic Chronic 2; H318 H411 | | | |

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 | |
| 68037-01-4 | 500-183-1 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 60 - < 80 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 64742-52-5 | 265-155-0 | Distillates (petroleum), hydrotreated heavy naphthenic; base oil - not specified | 10 - < 20 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 126019-82-7 | 406-940-1 | Thiophosphoric Acid Ester | 1 - < 2.5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 4259-15-8 | 224-235-5 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | 1 - < 2.5 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = 3100 mg/kg Eye Dam. 1; H318: >= 50 - 100 Eye Irrit. 2; H319: >= 2,5 - < 50 | |

Further Information

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

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 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.

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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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Sand.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). 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 jet 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. Avoid contact with skin, eyes and clothes.

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.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Dispose of waste according to applicable legislation. 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

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

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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 agent

Further information on storage conditions

Protect against: UV-radiation/sunlight. frost. Heat
Recommended storage temperature: 5 - 40°C

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--|----------------|----------|-------------------------|
| 64742-52-5 | Distillates (petroleum), hydrotreated heavy naphthenic; base oil - not specified | | | |
| 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 |
| 126019-82-7 | Thiophosphoric Acid Ester | | | |
| Worker DNEL, long-term | | inhalation | systemic | 11,75 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 33,3 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 2,89 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 16,67 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 1,67 mg/kg bw/day |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | |
| Worker DNEL, long-term | | dermal | systemic | 9,6 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,67 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 4,8 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,19 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 6,6 mg/m ³ |

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PNEC values

| CAS No | Substance | Value |
|--|--|-------------|
| Environmental compartment | | |
| 64742-52-5 | Distillates (petroleum), hydrotreated heavy naphthenic; base oil - not specified | |
| Secondary poisoning | | 9,33 mg/kg |
| 126019-82-7 | Thiophosphoric Acid Ester | |
| Freshwater sediment | | 0,1 mg/kg |
| Marine sediment | | 0,01 mg/kg |
| Soil | | 20 mg/kg |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | |
| Freshwater | | 0,004 mg/l |
| Freshwater (intermittent releases) | | 0,044 mg/l |
| Marine water | | 0,0046 mg/l |
| Freshwater sediment | | 0,322 mg/kg |
| Marine sediment | | 0,032 mg/kg |
| Secondary poisoning | | 8,33 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 3,8 mg/l |
| Soil | | 0,062 mg/kg |

Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m³

STEL: 10 mg/m³

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN ISO 16321

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

With correct and proper use, and under normal conditions, breathing protection is not required.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--|----------------------|
| Physical state: | Paste | |
| Colour: | brown, Féadfaidh an dath athrú beagáinín | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| | | Test method |
| Melting point/freezing point: | No data available | |
| Boiling point or initial boiling point and boiling range: | No data available | |
| Flammability: | No data available | |
| Lower explosion limits: | No data available | |
| Upper explosion limits: | No data available | |
| Flash point: | >200 °C | DIN EN ISO 2592 |
| Auto-ignition temperature: | not determined | |
| Decomposition temperature: | No data available | |
| pH-Value: | not applicable | |
| Viscosity / kinematic: (at 40 °C) | 400 mm ² /s | DIN 51562 - Base oil |
| 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 20 °C): | 0,87 g/cm ³ | |
| Relative vapour density: | No data available | |
| Particle characteristics: | No data available | |

9.2. Other information

Information with regard to physical hazard classes

| | |
|---------------------------|-------------------|
| Explosive properties | |
| not Explosive. | |
| Self-ignition temperature | |
| Solid: | No data available |
| Gas: | No data available |
| Oxidizing properties | |
| No data available | |

Other safety characteristics

| | |
|-------------|----------------|
| Pour point: | not applicable |
|-------------|----------------|

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.

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Do not overheat to avoid decomposition by heat.

10.5. Incompatible materials

Reacts with : Oxidising agent, strong

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|-------------|--|-------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1994) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1995) | OECD Guideline 402 |
| 64742-52-5 | Distillates (petroleum), hydrotreated heavy naphthenic; base oil - not specified | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1982) | OECD Guideline 401 |
| | dermal | LD50 > 5000 mg/kg | Rabbit | Study report (1982) | OECD Guideline 402 |
| 126019-82-7 | Thiophosphoric Acid Ester | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (1989) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1989) | OECD Guideline 402 |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | | |
| | oral | LD50 3100 mg/kg | Rat | Study report (1975) | OECD Guideline 401 |
| | dermal | LD50 > 5000 mg/kg | Rabbit | Study report (1975) | OECD Guideline 402 |

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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 exposure

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

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

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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

Harmful to aquatic life with long lasting effects.

Mixture not tested.

| CAS No | Chemical name | | | | | |
|-------------|--|-------------------|-----------|--------------------------|-----------------------------------|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | | | | | |
| | Acute fish toxicity | LL50 > 1000 mg/l | 96 h | Oncorhynchus mykiss | Study report (1995) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 1000 mg/l | 96 h | Raphidocelis subcapitata | Study report (1995) | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 > 1000 mg/l | 48 h | Daphnia magna | Study report (1995) | OECD Guideline 202 |
| 64742-52-5 | Distillates (petroleum), hydrotreated heavy naphthenic; base oil - not specified | | | | | |
| | Acute fish toxicity | LL50 > 100 mg/l | 96 h | Pimephales promelas | Study report (1995) | OECD Guideline 203 |
| | Fish toxicity | NOEC >= 1000 mg/l | 14 d | Oncorhynchus mykiss | CONCAWE, Brussels, Belgium (2010) | The aquatic toxicity was estimated by a |
| 126019-82-7 | Thiophosphoric Acid Ester | | | | | |
| | Acute fish toxicity | LC50 > 25 mg/l | 96 h | Danio rerio | Study report (1989) | other: OECD 203 |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Desmodesmus subspicatus | Study report (2002) | OECD Guideline 201 |
| | Crustacea toxicity | NOEC >= 10 mg/l | 21 d | Daphnia magna | Study report (2013) | OECD Guideline 211 |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | | | |
| | Acute fish toxicity | LL50 4,4 mg/l | 96 h | Oncorhynchus mykiss | Study report (2002) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 410 mg/l | 72 h | Desmodesmus subspicatus | Study report (2004) | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 75 mg/l | 48 h | Daphnia magna | Study report (2005) | OECD Guideline 202 |
| | Crustacea toxicity | NOEC 0,4 mg/l | 21 d | Daphnia magna | Study report (2010) | OECD Guideline 211 |

12.2. Persistence and degradability

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

| CAS No | Chemical name | | | |
|-------------|---------------------------|--------|----|-----------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 126019-82-7 | Thiophosphoric Acid Ester | | | |
| | Biodegradation | 2 - 4% | 28 | OECD 301B |

12.3. Bioaccumulative potential

No data available

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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-------------|---|---------|
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | > 6,5 |
| 126019-82-7 | Thiophosphoric Acid Ester | 19,2 |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | 3,59 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-------------|---------------------------|-----|-----------------|---------------------|
| 126019-82-7 | Thiophosphoric Acid Ester | 48 | Cyprinus carpio | Study report (1994) |

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 REACH, annex XIII.

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

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; 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: -
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): -

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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 28

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 1 - slightly 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): 3,8,15.

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Abbreviations and acronyms

Asp. Tox: Aspiration hazard

Eye Dam: Eye damage

Aquatic Chronic: Chronic aquatic hazard

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 - 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 Regulation (EC) No 1272/2008 [CLP]

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

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)