

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Longlife Grease HS 2

Revision date: 27.01.2023

Product code: 717227

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

1.1. Product identifier

ADDINOL Longlife Grease HS 2

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

Use of the substance/mixture

Lubricants, greases, release products

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.

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

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 an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH208 Contains Zinc naphthenate, Dipentylammonium dipentylidithiocarbamate. May produce an allergic reaction.

Additional advice on labelling

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

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2.3. Other hazards

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

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) | | | |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | 1 - < 5 % |
| | 224-235-5 | | 01-2119493635-27 | |
| | Eye Dam. 1, Aquatic Chronic 2; H318 H411 | | | |
| 68411-46-1 | alkylated diphenylamine | | | 1 - < 10 % |
| | 270-128-1 | | 01-2119491299-23 | |
| | Repr. 2; H361f | | | |
| 12001-85-3 | Zinc naphthenate | | | 0.5 - < 1 % |
| | 234-409-2 | | | |
| | Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H319 H317 H411 | | | |
| 71902-20-0 | Dipentylammonium dipentylidithiocarbamate | | | 0.5 - < 1 % |
| | 276-172-8 | | | |
| | Acute Tox. 4, Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 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 | | |
| 4259-15-8 | 224-235-5 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | 1 - < 5 % |
| | dermal: LD50 = > 5000 mg/kg; oral: LD50 = 3100 mg/kg Eye Dam. 1; H318: >= 50 - 100 Eye Irrit. 2; H319: >= 0 - < 50 | | |
| 68411-46-1 | 270-128-1 | alkylated diphenylamine | 1 - < 10 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | | |
| 12001-85-3 | 234-409-2 | Zinc naphthenate | 0.5 - < 1 % |
| | oral: LD50 = > 2000 mg/kg | | |
| 71902-20-0 | 276-172-8 | Dipentylammonium dipentylidithiocarbamate | 0.5 - < 1 % |
| | oral: ATE = 500 mg/kg | | |

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.

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.

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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

Carbon dioxide (CO₂). Extinguishing powder. Sand. Water spray. Foam.

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). Sulphur dioxide (SO₂).. phosphorus oxides. 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. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. 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. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

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

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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 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

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|--|----------|------------------------|
| DNEL type | Exposure route | Effect | Value |
| 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 |
| 68411-46-1 | alkylated diphenylamine | | |
| Worker DNEL, long-term | inhalation | systemic | 0,6 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 0,08 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,14 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 0,04 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,04 mg/kg bw/day |
| 12001-85-3 | Zinc naphthenate | | |
| Worker DNEL, long-term | inhalation | systemic | 1,18 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 3,3 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,29 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 1,7 mg/kg bw/day |

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PNEC values

| CAS No | Substance | Value |
|--|--|-------------|
| Environmental compartment | | |
| 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 |
| 68411-46-1 | alkylated diphenylamine | |
| Freshwater | | 0,034 mg/l |
| Freshwater (intermittent releases) | | 0,51 mg/l |
| Marine water | | 0,003 mg/l |
| Freshwater sediment | | 0,446 mg/kg |
| Marine sediment | | 0,045 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 1,76 mg/kg |
| 12001-85-3 | Zinc naphthenate | |
| Freshwater | | 0,004 mg/l |
| Freshwater (intermittent releases) | | 0,04 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,015 mg/kg |
| Marine sediment | | 0,002 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,6897 mg/l |
| Soil | | 0,001 mg/kg |

Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m³STEL: 10 mg/m³

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

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust 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

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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: 0.4 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.2 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. 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: | Paste |
| Colour: | light beige |
| Odour: | characteristic |
| Odour threshold: | not determined |

| | Test method |
|---|---|
| Melting point/freezing point: | > 250 °C |
| Boiling point or initial boiling point and boiling range: | > 250 °C |
| 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: | No data available |
| Decomposition temperature: | No data available |
| pH-Value: | not applicable |
| Viscosity / kinematic: (at 40 °C) | 26 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 25 °C): | 0,94 g/cm ³ DIN 51757 - Base oil |
| Relative vapour density: | No data available |

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

Explosive properties

evaluation: not Explosive.

Sustaining combustion:

Not sustaining combustion

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Self-ignition temperature

Solid:

incapable of spontaneous heating.

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

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). Nitrogen oxides (NO_x). Sulphur dioxide (SO₂).. phosphorus oxides. 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.

| CAS No | Chemical name | | | | |
|------------|--|-------------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | | |
| | oral | LD50 mg/kg 3100 | Rat | Study report (1975) | OECD Guideline 401 |
| | dermal | LD50 mg/kg > 5000 | Rabbit | Study report (1975) | OECD Guideline 402 |
| 68411-46-1 | alkylated diphenylamine | | | | |
| | oral | LD50 mg/kg > 5000 | Rat | Study report (1982) | OECD Guideline 401 |
| | dermal | LD50 mg/kg > 2000 | Rat | Study report (1988) | OECD Guideline 402 |
| 12001-85-3 | Zinc naphthenate | | | | |
| | oral | LD50 mg/kg > 2000 | Rat | Study report (2018) | OECD Guideline 423 |
| 71902-20-0 | Dipentylammonium dipentylidithiocarbamate | | | | |
| | oral | ATE mg/kg 500 | | | |

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Irritation and corrosivity

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

Sensitising effects

Contains Zinc naphthenate, Dipentylammonium dipentylidithiocarbamate. 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 exposure

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

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 |
| 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 |
| 68411-46-1 | alkylated diphenylamine | | | | | |
| | Acute fish toxicity | LC50 > 100 mg/l | 96 h | Danio rerio | Study report (1988) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Desmodesmus subspicatus | Study report (2006) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 51 mg/l | 48 h | Daphnia magna | Study report (2004) | OECD Guideline 202 |
| 12001-85-3 | Zinc naphthenate | | | | | |
| | Acute fish toxicity | LL50 > 100 mg/l | 96 h | Cyprinus carpio | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 4 mg/l | 72 h | Pseudokirchneriella subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 35 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| | Acute bacteria toxicity | (EC50 5,2 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | Water research volume 17, nr10, 1363-136 | OECD Guideline 209 |

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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

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--|---------|
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | 3,59 |
| 68411-46-1 | alkylated diphenylamine | 6,66 |
| 12001-85-3 | Zinc naphthenate | 0,8 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|-------------------------|-------|-----------------|----------------------|
| 68411-46-1 | alkylated diphenylamine | 411 | Cyprinus carpio | Study report (2000) |
| 12001-85-3 | Zinc naphthenate | 69,48 | Capoeta fusca | Water Qual Expo Heal |

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 to enter into surface water or drains.

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

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; 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): -

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| <u>14.4. Packing group:</u> | - |
| Inland waterways transport (ADN) | |
| <u>14.1. UN number or ID number:</u> | - |
| <u>14.2. UN proper shipping name:</u> | - |
| <u>14.3. Transport hazard class(es):</u> | - |
| <u>14.4. Packing group:</u> | - |
| Marine transport (IMDG) | |
| <u>14.1. UN number or ID number:</u> | - |
| <u>14.2. UN proper shipping name:</u> | - |
| <u>14.3. Transport hazard class(es):</u> | - |
| <u>14.4. Packing group:</u> | - |
| Air transport (ICAO-TI/IATA-DGR) | |
| <u>14.1. UN number or ID number:</u> | - |
| <u>14.2. UN proper shipping name:</u> | - |
| <u>14.3. Transport hazard class(es):</u> | - |
| <u>14.4. Packing group:</u> | - |
| <u>14.5. Environmental hazards</u> | |
| ENVIRONMENTALLY HAZARDOUS: | No |
| <u>14.6. Special precautions for user</u> | |
| Unless specified otherwise, general measures for safe transport must be followed. | |
| <u>14.7. Maritime transport in bulk according to IMO instruments</u> | |
| not applicable | |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2004/42/EC (VOC): < 3%

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): 1,2,4,5,9,12,13,15.

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

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- 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. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361f | Suspected of damaging fertility. |
| 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 Zinc naphthenate, Dipentylammonium dipentylidithiocarbamate. May produce an allergic reaction. |

Further Information

The mixture is classified as not 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.)