

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Chain Lube XHT 250 Spray

Revision date: 07.07.2023

Product code: 76602530

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

ADDINOL Chain Lube XHT 250 Spray

UFI: PVKJ-QR01-Q377-PRAM

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

Aerosol - 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**Aerosol 1; H222-H229
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****Signal word:** Danger**Pictograms:****Hazard statements**

| | |
|------|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P273 Avoid release to the environment.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
 43 % by mass of the contents are flammable.

Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|----------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 68937-41-7 | Triaryl phosphate isopropylated | | | 1 - < 2.5 % |
| | 273-066-3 | | 01-2119535109-41 | |
| | Repr. 2, STOT RE 2, Aquatic Chronic 1; H361fd H373 H410 | | | |
| 115-86-6 | Triphenyl phosphate | | | 0.5 - < 1 % |
| | 204-112-2 | | | |
| | Aquatic Acute 1, Aquatic Chronic 1; 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 | | |
| 68937-41-7 | 273-066-3 | Triaryl phosphate isopropylated | 1 - < 2.5 % |
| | dermal: LD50 = > 10000 mg/kg | | |
| 115-86-6 | 204-112-2 | Triphenyl phosphate | 0.5 - < 1 % |
| | dermal: LD50 = > 10000 mg/kg; oral: LD50 = > 20000 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

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General information

Remove affected person from the danger area and lay down. Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position. 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. In case of breathing difficulties administer oxygen. In case of respiratory tract irritation, consult a physician.

After contact with skin

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

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. 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

following inhalation: drowsiness. Headache. Nausea.

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**

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

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 dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x). carbon black.

Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

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

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**

Remove persons to safety. Wear a self-contained breathing apparatus and chemical resistant suit. Vapours are heavier than air and will spread at floor level. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

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

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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

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Heating causes rise in pressure with risk of bursting.

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 away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Please note: TRG 300, aerosol directive (75/324/EEC).

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents. Material, rich in oxygen, oxidizing.

Further information on storage conditions

Recommended storage temperature: 5 - 40°C. Do not store at temperatures over: 50°C.

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|----------|---|------|-------------------|---------------------|---------------|--------|
| 74-98-6 | Aliphatic hydrocarbon gases, Alkanes (C1-C3), Propane | - | - | - | Asphyxiant | |
| 106-97-8 | Butane, all isomers - n-butane | 1000 | - | - | STEL (15 min) | |
| 115-86-6 | Triphenyl phosphate | - | 3 | - | TWA (8 h) | |

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|---------------------------------|----------|-------------------------|
| DNEL type | Exposure route | Effect | Value |
| 68937-41-7 | Triaryl phosphate isopropylated | | |
| Consumer DNEL, acute | oral | systemic | 50 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 0,145 mg/m ³ |
| Worker DNEL, acute | inhalation | systemic | 700 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 0,416 mg/kg bw/day |
| Worker DNEL, acute | dermal | systemic | 2000 mg/kg bw/day |
| Worker DNEL, acute | dermal | local | 16 mg/cm ² |
| Consumer DNEL, acute | inhalation | systemic | 350 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 0,208 mg/kg bw/day |
| Consumer DNEL, acute | dermal | systemic | 100 mg/kg bw/day |
| Consumer DNEL, acute | dermal | local | 8 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 0,04 mg/kg bw/day |
| 115-86-6 | Triphenyl phosphate | | |
| Worker DNEL, long-term | inhalation | systemic | 5,2 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 5,55 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,9 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 1,98 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,5 mg/kg bw/day |

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PNEC values

| CAS No | Substance | Value |
|--|---------------------------------|--------------|
| Environmental compartment | | |
| 68937-41-7 | Triaryl phosphate isopropylated | |
| Freshwater | | 0 mg/l |
| Freshwater (intermittent releases) | | 0,015 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,185 mg/kg |
| Marine sediment | | 0,018 mg/kg |
| Secondary poisoning | | 1,85 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 2,5 mg/kg |
| 115-86-6 | Triphenyl phosphate | |
| Freshwater | | 0,004 mg/l |
| Freshwater (intermittent releases) | | 0,003 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 1,103 mg/kg |
| Marine sediment | | 0,11 mg/kg |
| Secondary poisoning | | 16,667 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 5 mg/l |
| Soil | | 0,218 mg/kg |

Additional advice on limit values

source:

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

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.

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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. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe > 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|----------------|
| Physical state: | gaseous |
| Colour: | light yellow |
| Odour: | characteristic |
| Odour threshold: | not determined |

| | Test method |
|---|-------------------------|
| Melting point/freezing point: | No data available |
| Boiling point or initial boiling point and boiling range: | < -20 °C |
| Flammability: | No data available |
| Lower explosion limits: | 3 vol. % |
| Upper explosion limits: | 15 vol. % |
| Flash point: | < -20 °C |
| Auto-ignition temperature: | 472 °C |
| Decomposition temperature: | No data available |
| pH-Value: | not applicable |
| Viscosity / kinematic: (at 40 °C) | not applicable |
| Water solubility: (at 20 °C) | virtually insoluble |
| Solubility in other solvents | No data available |
| Partition coefficient n-octanol/water: | No data available |
| Vapour pressure: (at 20 °C) | No data available |
| Density (at 20 °C): | 0,734 g/cm ³ |
| Relative vapour density: | No data available |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Self-ignition temperature

Solid:

No data available

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.

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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Ignition hazard.

Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Take precautionary measures against static discharges. See protective measures under point 7 and 8.

10.5. Incompatible materials

Keep away from: Oxidizing agent. Material, rich in oxygen, oxidizing.

10.6. Hazardous decomposition products

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide 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.

Mixture not tested.

| CAS No | Chemical name | | | | |
|------------|---------------------------------|--------------------|---------|---------------------|-----------------------|
| | Exposure route | Dose | Species | Source | Method |
| 68937-41-7 | Triaryl phosphate isopropylated | | | | |
| | dermal | LD50 > 10000 mg/kg | Rabbit | Study report (1976) | other: 16 CFR 1500.40 |
| 115-86-6 | Triphenyl phosphate | | | | |
| | oral | LD50 > 20000 mg/kg | Rat | Study report (1976) | OECD Guideline 401 |
| | dermal | LD50 > 10000 mg/kg | Rabbit | Study report (1976) | OECD Guideline 402 |

Irritation and corrosivity

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

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.

Aspiration hazard

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

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Specific effects in experiment on an animal

following inhalation: drowsiness. Headache. Nausea.

11.2. Information on other hazards

Endocrine disrupting properties

not applicable

Further information

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 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 |
| 68937-41-7 | Triaryl phosphate isopropylated | | | | | |
| | Acute fish toxicity | LC50 mg/l | 10,8 | 96 h | Pimephales promelas | REACH Registration Dossier |
| | Acute algae toxicity | ErC50 mg/l | > 2,5 | 72 h | Pseudokirchneriella subcapitata | REACH Registration Dossier |
| | Acute crustacea toxicity | EC50 | 1,5 mg/l | 48 h | Daphnia magna | REACH Registration Dossier |
| | Fish toxicity | NOEC mg/l | 0,0031 | 33 d | Pimephales promelas | REACH Registration Dossier |
| | Crustacea toxicity | NOEC mg/l | 0,0415 | 21 d | Daphnia magna | REACH Registration Dossier |
| | Acute bacteria toxicity | (EC50 mg/l) | > 1000 | 3 h | activated sludge, domestic | REACH Registration Dossier |
| 115-86-6 | Triphenyl phosphate | | | | | |
| | Acute fish toxicity | LC50 | 0,4 mg/l | 96 h | Oncorhynchus mykiss | REACH Registration Dossier |
| | Acute algae toxicity | ErC50 mg/l | 2,45 | 72 h | Pseudokirchneriella subcapitata | Study report (2000) |
| | Acute crustacea toxicity | EC50 | 1 mg/l | 48 h | Daphnia magna | Aquatic Toxicology and Hazard Assessment |
| | Fish toxicity | NOEC mg/l | >= 0,001 | 90 d | Oncorhynchus mykiss | Aquatic Toxicology and Hazard Assessment |
| | Crustacea toxicity | NOEC mg/l | 0,254 | 21 d | Daphnia magna | REACH Registration Dossier |

12.2. Persistence and degradability

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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 |
|------------|---------------------------------|----------------|
| 68937-41-7 | Triaryl phosphate isopropylated | 85000 - 150000 |
| 115-86-6 | Triphenyl phosphate | 4,63 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---------------------------------|-----|---------------------|----------------------|
| 68937-41-7 | Triaryl phosphate isopropylated | 225 | Lepomis macrochirus | REACH Registration D |
| 115-86-6 | Triphenyl phosphate | 144 | Oryzias latipes | REACH Registration D |

12.4. Mobility in soil

Product is easily volatile. Product is difficult to dissolve in water.

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

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

Do not open container by force. 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

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

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

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

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Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantity: 1000 mL
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: flammable gases.

14.7. Maritime transport in bulk according to IMO instruments

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not applicable

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, Entry 40

2010/75/EU (VOC): 42,784 % (314,034 g/l)

2004/42/EC (VOC): 41,979 % (308,126 g/l)

Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC , 2008/47/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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): 5,6,9,10,12,15,16.

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 - 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

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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aerosol 1; H222-H229 | |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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. |
| 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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)