

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYDRAULIC OIL ATF M.15

Product code: 001-10-23204 (1L), 001-10-23205 (5L), 001-10-23206 (20L), 001-10-23207 (60L), 001-10-23967 (208L)

Revision date: 29.04.2023

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

1.1. Product identifier

HYDRAULIC OIL ATF M.15

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

Use of the substance/mixture

Lubricating agent

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|------------------------|------------------------------|
| Company name: | BBR Automotive GmbH | |
| Street: | Mercatorstraße 95 | |
| Place: | D-21502 Geesthacht | |
| Telephone: | +49 (0)40 600806-0 | Telefax: +49 (0)40 600806-10 |
| e-mail: | info@bbr-automotive.de | |
| Internet: | www.bbr-automotive.de | |
| Responsible Department: | msds@bbr-automotive.de | |

1.4. Emergency telephone number:

Giftnotruf (München)
+49 (0)89 19240 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified

Signal word: Danger

Pictograms:



Hazard statements

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents / container in accordance with official regulations.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|---|--------------|------------------|----------------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 72623-86-0 | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified | | | 25 - < 43 % |
| | 276-737-9 | 649-482-00-X | 01-2119474878-16 | |
| | Asp. Tox. 1; H304 | | | |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | | | 11 - < 20 % |
| | 265-157-1 | 649-467-00-8 | 01-2119484627-25 | |
| | Asp. Tox. 1; H304 | | | |
| 125643-61-0 | reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | | | 0 - < 1,2 % |
| | 406-040-9 | 607-530-00-7 | 01-0000015551-76 | |
| | Aquatic Chronic 4; H413 | | | |
| 36878-20-3 | BIs(nonylphenyl)amine | | | 0 - < 1,2 % |
| | 253-249-4 | | 01-2119488911-28 | |
| | Aquatic Chronic 4; H413 | | | |
| | Reaction product of alkylthioalcohol and substituted phosphorus compound | | | 0 - < 0,24 % |
| | 424-820-7 | | 01-0000017126-75 | |
| | Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H312 H314 H400 H410 | | | |
| 91-20-3 | naphthalene | | | 0 - < 0,0007 % |
| | 202-049-5 | 601-052-00-2 | 01-2119561346-37 | |
| | Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H351 H302 H400 H410 | | | |

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

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-------------|-----------|--|----------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 72623-86-0 | 276-737-9 | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified | 25 - < 43 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 64742-54-7 | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | 11 - < 20 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 125643-61-0 | 406-040-9 | reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | 0 - < 1,2 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 36878-20-3 | 253-249-4 | Bis(nonylphenyl)amine | 0 - < 1,2 % |
| | | oral: LD50 = > 5000 mg/kg | |
| | 424-820-7 | Reaction product of alkylthioalcohol and substituted phosphorus compound | 0 - < 0,24 % |
| | | dermal: LD50 = > 500 mg/kg; oral: LD50 = > 2000 mg/kg M akut; H400: M=10 M chron.; H410: M=10 | |
| 91-20-3 | 202-049-5 | naphthalene | 0 - < 0,0007 % |
| | | inhalation: LC50 = > 77,7 mg/l (vapours); dermal: LD50 = > 16000 mg/kg; oral: LD50 = 710 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
Take off contaminated clothing and wash it before reuse.
In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth thoroughly with water.
Let water be drunk in little sips (dilution effect).
Do NOT induce vomiting.
In all cases of doubt, or when symptoms persist, seek medical advice.

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

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Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- Water spray jet
- alcohol resistant foam.
- Carbon dioxide (CO₂).
- Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂).

5.3. Advice for firefighters

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

In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Wear protective gloves/protective clothing and eye/face protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment

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.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust.

Use personal protection equipment.

Do not put any product-impregnated cleaning rags into your trouser pockets.

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Clear spills immediately.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

Keep container tightly closed.

Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Note Regulation on facilities for the storage, filling and handling water-polluting substances. ...

7.3. Specific end use(s)

Lubricating agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-------------|-----|-------------------|-----------|-----------|--------|
| 91-20-3 | Naphthalene | 10 | 50 | | TWA (8 h) | EU |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|------------------------|
| 72623-86-0 | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; 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 |
| 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 |
| 125643-61-0 | reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | | | |
| Worker DNEL, long-term | | dermal | systemic | 1,67 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,62 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,83 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,93 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 6,6 mg/m ³ |
| 36878-20-3 | Bis(nonylphenyl)amine | | | |
| Worker DNEL, long-term | | dermal | systemic | 5 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 2,5 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,25 mg/kg bw/day |
| | Reaction product of alkylthioalcohol and substituted phosphorus compound | | | |
| Worker DNEL, long-term | | inhalation | systemic | 1,76 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,5 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,43 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,25 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,25 mg/kg bw/day |
| 91-20-3 | naphthalene | | | |
| Worker DNEL, long-term | | inhalation | systemic | 25 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 25 mg/m ³ |

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| | | | |
|------------------------|--------|----------|----------------------|
| Worker DNEL, long-term | dermal | systemic | 3,57 mg/kg bw/day |
|------------------------|--------|----------|----------------------|

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PNEC values

| CAS No | Substance | Value |
|--|---|--------------|
| Environmental compartment | | Value |
| 72623-86-0 | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified | |
| Secondary poisoning | | 9,33 mg/kg |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified | |
| Secondary poisoning | | 9,33 mg/kg |
| 125643-61-0 | reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | |
| Freshwater | | 0,018 mg/l |
| Freshwater (intermittent releases) | | 0,018 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 2 mg/kg |
| Marine sediment | | 0,2 mg/kg |
| Secondary poisoning | | 41,33 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 10 mg/kg |
| 36878-20-3 | Bis(nonylphenyl)amine | |
| Freshwater | | 0,412 mg/l |
| Freshwater (intermittent releases) | | 1 mg/l |
| Marine water | | 0,041 mg/l |
| Freshwater sediment | | 1 mg/kg |
| Marine sediment | | 0,1 mg/kg |
| Reaction product of alkylthioalcohol and substituted phosphorus compound | | |
| Freshwater | | 0,0009 mg/l |
| Freshwater (intermittent releases) | | 0,0009 mg/l |
| Marine water | | 0,00009 mg/l |
| Freshwater sediment | | 0,73 mg/kg |
| Marine sediment | | 0,073 mg/kg |
| Secondary poisoning | | 10 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 5 mg/l |
| Soil | | 0,086 mg/kg |
| 91-20-3 | naphthalene | |
| Freshwater | | 0,0024 mg/l |
| Freshwater (intermittent releases) | | 0,02 mg/l |
| Marine water | | 0,0024 mg/l |
| Freshwater sediment | | 0,0672 mg/kg |
| Marine sediment | | 0,0672 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 2,9 mg/l |
| Soil | | 0,0533 mg/kg |

8.2. Exposure controls

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Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.
Wash hands before breaks and after work.
When using do not eat, drink, smoke, sniff.

Eye/face protection

During filling, metering, mixing and sampling must be used:
Wear eye/face protection. DIN EN 166

Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Tested protective gloves must be worn. EN ISO 374

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary.
In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|------------------|------------------|----------------|
| Physical state: | Liquid | |
| Colour: | blue | |
| Odour: | Mineral-oil-like | |
| Odour threshold: | not determined | |
| pH-Value: | | not determined |

Changes in the physical state

| | | |
|---|--|----------------|
| Melting point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not determined |
| Pour point: | | -54 °C |
| Flash point: | | 178 °C |

Flammability

| | | |
|---------------|--|----------------|
| Solid/liquid: | | not applicable |
| Gas: | | not applicable |

Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

| | | |
|-------------------------|--|----------------|
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |

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Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

The product is not: oxidising.

Vapour pressure: not determined
(at 20 °C)

Density (at 15 °C): 0,846 g/cm³

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / kinematic: 18,3 mm²/s
(at 40 °C)

Relative vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reaction with: Oxidizing agent

10.4. Conditions to avoid

Avoid: Thermal decomposition

10.5. Incompatible materials

Materials to avoid:

- Acids
- Reducing agent
- Oxidising agent

10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x)

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.

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| CAS No | Chemical name | | | | |
|-------------|---|--------------------|---------|---|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 72623-86-0 | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; 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 |
| 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 |
| 125643-61-0 | reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (2005) | OECD Guideline 423 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2000) | OECD Guideline 402 |
| 36878-20-3 | Bis(nonylphenyl)amine | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1981) | OECD Guideline 401 |
| | Reaction product of alkylthioalcohol and substituted phosphorus compound | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (1996) | OECD Guideline 401 |
| | dermal | LD50 > 500 mg/kg | Rabbit | Study report (1996) | OECD Guideline 402 |
| 91-20-3 | naphthalene | | | | |
| | oral | LD50 710 mg/kg | Mouse | FUND. APPL. TOXICOL 4: 406-419 (1984) (1) | OECD Guideline 401 |
| | dermal | LD50 > 16000 mg/kg | Rat | Study report (1980) | OECD Guideline 402 |
| | inhalation (4 h) vapour | LC50 > 77,7 mg/l | Rat | Study report (1985) | other: EPA TSCA |

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.

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

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.

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Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | |
|-------------|---|------------------------------|-----------|---|--|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 72623-86-0 | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified | | | | | |
| | 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 |
| 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 |
| 125643-61-0 | reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | | | | | |
| | Acute fish toxicity | LC50 > 0,001 mg/l | 96 h | Oncorhynchus mykiss | Study report (2009) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 0 mg/l | 72 h | Desmodesmus subspicatus | Study report (2009) | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 110 mg/l | 48 h | Daphnia magna | Study report (2000) | OECD Guideline 202 |
| | Fish toxicity | NOEC 0,36 mg/l | 33 d | Pimephales promelas | Study report (2009) | OECD Guideline 210 |
| | Crustacea toxicity | NOEC 3,2 mg/l | 21 d | Daphnia magna | Study report (2010) | OECD Guideline 211 |
| | Acute bacteria toxicity | (> 1000 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | Study report (2000) | OECD Guideline 209 |
| 36878-20-3 | Bis(nonylphenyl)amine | | | | | |
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | Danio rerio (zebrafish) | ECHA Dossier | |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (2019) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 100 mg/l | 48 h | Daphnia magna | Study report (2004) | OECD Guideline 202 |
| | Reaction product of alkylthioalcohol and substituted phosphorus compound | | | | | |
| | Acute fish toxicity | LC50 1,5 mg/l | 96 h | | | |
| | Acute algae toxicity | ErC50 0,31 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (1996) | EU Method C.3 |
| | Acute crustacea toxicity | EL50 0,09 mg/l | 48 h | Daphnia magna | Study report (1996) | EU Method C.2 |
| | Crustacea toxicity | NOEC 0,14 mg/l | 21 d | Daphnia magna | Study report (2001) | OECD Guideline 211 |
| | Acute bacteria toxicity | (> 50 mg/l) | 3 h | Activated sludge | Study report (1996) | OECD Guideline 209 |
| 91-20-3 | naphthalene | | | | | |
| | Acute fish toxicity | LC50 1,6 mg/l | 96 h | Oncorhynchus mykiss | Arch. Environm. Contam. Toxicol. 11, 487 | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 ca. 0,4 - ca. 0,5 mg/l | 72 h | Skeletonema costatum | Mar Environ Res 11, 183-200 (1984) | Aquatic toxicity of water soluble fracti |

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| | | | | | | | |
|--|--------------------------|--------------|------|-------|----------------------|--|--|
| | Acute crustacea toxicity | EC50 mg/l | 2,16 | 48 h | Daphnia magna | Transactions of the American Fisheries S | OECD Guideline 202 |
| | Fish toxicity | NOEC mg/l | 0,37 | 40 d | Oncorhynchus kisutch | Trans. Am. Fish. Soc. 110:430-436, 1981 | Coho salmon fry were exposed for 40 days |
| | Crustacea toxicity | NOEC mg/l | 0,59 | 125 d | Daphnia pulex | Can. J. Fish. Aquat. Sci. 39: 830 - 834 | During chronic studies in closed static |

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|-----------------------|---------|
| 36878-20-3 | BIs(nonylphenyl)amine | 7,6 |
| 91-20-3 | naphthalene | 3,4 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-------------|--|---------|-----------------|---------------------|
| 125643-61-0 | reaction mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl)propi onate | 38 | Cyprinus carpio | Study report (2002) |
| 36878-20-3 | BIs(nonylphenyl)amine | 1584,89 | Cyprinus carpio | Study report (2000) |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

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Land transport (ADR/RID)

- | | |
|---|--|
| <u>14.1. UN number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

- | | |
|---|--|
| <u>14.1. UN number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

- | | |
|---|--|
| <u>14.1. UN number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

- | | |
|---|--|
| <u>14.1. UN number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

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, Entry 28

2010/75/EU (VOC): 0,001 % (0,006 g/l)

2004/42/EC (VOC): 0,001 % (0,006 g/l)

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

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.

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SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,13,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Asp. Tox. 1; H304 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

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| | |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H351 | Suspected of causing cancer. |
| 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. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. 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.)