

**Safety Data Sheet**

Revision date: 26.03.2021

**Alpine ATF MB 14**

Product code: MIT0083

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

Alpine ATF MB 14

**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: MITAN Mineralöl GmbH

Street: Industriestraße 8

Place: D-49577 Ankum

Telephone: +49 (0)5462/7470-50

Telefax: +49 (0)5462/7470-33

e-mail: info@mitan-oil.de

e-mail (Contact person): sicherheitsdatenblatt@mitan-oil.de

Internet: www.mitan-oil.de

**1.4. Emergency telephone**

Giftinformationszentrum Nord (Göttingen)

**number:**

+49 (0)551/19240

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

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

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

Reaction product of alkylthioalcohol and substituted phosphorus compound

**Hazard statements**

H412

Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273

Avoid release to the environment.

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****Chemical characterization**

Preparation of base oils and additives.

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#### Hazardous components

| CAS No      | Chemical name   |              |                  | Quantity       |
|-------------|---|--------------|------------------|----------------|
|             | EC No   | Index No     | REACH No         |                |
|             | GHS Classification  |              |                  |                |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified           |              |                  | 52 - < 87,99 % |
|             | 265-157-1   | 649-467-00-8 | 01-2119484627-25 |                |
|             | Asp. Tox. 1; H304   |              |                  |                |
| 36878-20-3  | BIs(nonylphenyl)amine   |              |                  | 0 - < 1,2 %    |
|             | 253-249-4   |              | 01-2119488911-28 |                |
|             | Aquatic Chronic 4; H413   |              |                  |                |
| 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   |              |                  |                |
|             | 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    |              |                  |                |

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

#### Specific Conc. Limits, M-factors and ATE

| CAS No      | EC No     | Chemical name  | Quantity       |
|-------------|-----------|--|----------------|
|             |           | Specific Conc. Limits, M-factors and ATE   |                |
| 64742-54-7  | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified                    | 52 - < 87,99 % |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg   |                |
| 36878-20-3  | 253-249-4 | BIs(nonylphenyl)amine  | 0 - < 1,2 %    |
|             |           | 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   |                |
|             | 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<br>M chron.; H410: M=10 |                |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

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.

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#### 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**

##### **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 (CO<sub>2</sub>).
- Extinguishing powder

##### **Unsuitable extinguishing media**

High power 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<sub>x</sub>)
- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).

#### **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).

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#### **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.

##### **For cleaning up**

Remove from the water surface (e.g. skimming, sucking).

#### **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.

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**

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#### DNEL/DMEL values

| CAS No                   | Substance   |                |          |                   |
|--------------------------|---|----------------|----------|-------------------|
| DNEL type                |   | Exposure route | Effect   | Value             |
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified           |                |          |                   |
| Worker DNEL, long-term   |   | inhalation     | systemic | 2,73 mg/m³        |
| Worker DNEL, long-term   |   | inhalation     | local    | 5,58 mg/m³        |
| Worker DNEL, long-term   |   | dermal         | systemic | 0,97 mg/kg bw/day |
| Consumer DNEL, long-term |   | inhalation     | local    | 1,19 mg/m³        |
| Consumer DNEL, long-term |   | oral           | systemic | 0,74 mg/kg bw/day |
| 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 |
| 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/m³        |
| 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/m³         |
|                          | Reaction product of alkylthioalcohol and substituted phosphorus compound                |                |          |                   |
| Worker DNEL, long-term   |   | inhalation     | systemic | 1,76 mg/m³        |
| Worker DNEL, long-term   |   | dermal         | systemic | 0,5 mg/kg bw/day  |
| Consumer DNEL, long-term |   | inhalation     | systemic | 0,43 mg/m³        |
| Consumer DNEL, long-term |   | dermal         | systemic | 0,25 mg/kg bw/day |
| Consumer DNEL, long-term |   | oral           | systemic | 0,25 mg/kg bw/day |

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#### PNEC values

| CAS No      | Substance   |              |
|-------------|---|--------------|
|             | Environmental compartment   | Value        |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified           |              |
|             | Secondary poisoning   | 9,33 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    |
| 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     |
|             | 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  |

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### 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.

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#### 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:          | red              |
| 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:   | -51 °C         |
| Flash point:  | 233 °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 |

#### Self-ignition temperature

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

|                            |                |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

#### Oxidizing properties

The product is not: oxidising.

|                  |                |
|------------------|----------------|
| Vapour pressure: | not determined |
|------------------|----------------|

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Density (at 15 °C): 0,849 g/cm<sup>3</sup>**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:

not determined

Viscosity / kinematic:

29 mm<sup>2</sup>/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 (CO<sub>2</sub>)
- Nitrogen oxides (NO<sub>x</sub>)

**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             |
| 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 |
| 36878-20-3  | BIs(nonylphenyl)amine   |                   |         |                     |                    |
|             | oral  | LD50 > 5000 mg/kg | Rat     | Study report (1981) | OECD Guideline 401 |
| 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 |
|             | 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 |

#### 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.

#### Aspiration hazard

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

#### 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             |
| 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 |
| 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 |
| 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 |
|             | 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 |

#### 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     |

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#### BCF

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

#### 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.

### 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

#### Land transport (ADR/RID)

##### 14.1. UN number:

No dangerous good in sense of this transport regulation.

##### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

##### 14.1. UN number:

No dangerous good in sense of this transport regulation.

##### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

##### 14.1. UN number:

No dangerous good in sense of this transport regulation.

##### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

##### 14.1. UN number:

No dangerous good in sense of this transport regulation.

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**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** 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

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.

**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

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

**Relevant H and EUH statements (number and full text)**

H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
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.)*