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

### 1.1. Product identifier

TS Kettenöl Ultimate 950 ml WB

UFI: S7V0-M0JW-900A-HAM8

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

### 1.3. Details of the supplier of the safety data sheet

Company name: TUNAP GmbH & Co. KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: + 49 (0) 8171/1600 - 0 Telefax: + 49 (0) 8171/1600 - 40
E-mail: sdb@tunap.com
Internet: www.tunap.com

### 1.4. Emergency telephone number:

1774 / +356 2559 4600

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

**Hazard components for labelling**

Polysulfides, di-tert-dodecyl
Reaction products of triphenyl phosphite and isodecanol (1:2)
Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate
bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)
[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)
[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)
[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)
[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine

**Signal word:** Warning

**Pictograms:**

**Hazard statements**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing .
P280 Wear protective gloves/protective clothing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 68425-15-0 | Polysulfides, di-tert-dodecyl | | | 1 - < 3 % |
| | 270-335-7 | | 01-2119540516-41 | |
| | Skin Sens. 1B; H317 | | | |
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | | | 0.1 - < 1 % |
| | 270-128-1 | | 01-2119491299-23 | |
| | Repr. 2, Aquatic Chronic 3; H361f H412 | | | |
| 25550-98-5 | Reaction products of triphenyl phosphite and isodecanol (1:2) | | | 0.1 - < 1 % |
| | 701-374-4 | | 01-2119962888-14 | |
| | Skin Sens. 1, Aquatic Chronic 3; H317 H412 | | | |
| | Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate | | | 0.1 - < 1 % |
| | 947-946-9 | | 01-2120772600-59 | |
| | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 4; H315 H317 H413 | | | |
| | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | | | 0.1 - < 1 % |
| | 939-700-4 | | 01-2119982395-25 | |
| | Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H315 H317 H400 H411 | | | |

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

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

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 68425-15-0 | 270-335-7 | Polysulfides, di-tert-dodecyl | 1 - < 3 % |
| | inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg | | |
| 68411-46-1 | 270-128-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | 0.1 - < 1 % |
| | inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | | |
| 25550-98-5 | 701-374-4 | Reaction products of triphenyl phosphite and isodecanol (1:2) | 0.1 - < 1 % |
| | dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg | | |
| | 939-700-4 | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | 0.1 - < 1 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3313 mg/kg | | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an

unconscious person or a person with cramps.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing.

**After contact with skin**

Take off immediately all contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**General advice**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**For non-emergency personnel**

First aider: Pay attention to self-protection!

**For emergency responders**

Fight fire with normal precautions from a reasonable distance.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. 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**

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

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). 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
Disposal: see section 13

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

**Advice on safe handling**

Observe instructions for use.
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point

of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Advice on general occupational hygiene**

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

Do not store together with: Pyrophoric or self-heating substances. Food and feedingstuffs.

**Further information on storage conditions**

Store in a cool dry place.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**DNEL/DMEL values**

| CAS No | Name of agent | | | |
|---|---|---|---|---|
| DNEL type | | Exposure route | Effect | Value |
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | | | |
| Worker DNEL, long-term | | inhalation | systemic | 0,6 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,08 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,14 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,04 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,04 mg/kg bw/day |
| 25550-98-5 | Reaction products of triphenyl phosphite and isodecanol (1:2) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 70,5 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 50 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 35 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 25 mg/kg bw/day |
| | Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 4,93 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 1,4 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,87 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,5 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,5 mg/kg bw/day |
| | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | | | |
| Worker DNEL, long-term | | inhalation | systemic | 1,3 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,4 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,3 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,2 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,2 mg/kg bw/day |

**PNEC values**

| CAS No | Name of agent | |
|---|---|---|
| Environmental compartment | | Value |
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | |
| 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 |
| | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)<br>[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)<br>[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)<br>[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)<br>[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | |
| Freshwater | | 0,001 mg/l |
| Freshwater (intermittent releases) | | 0,01 mg/l |
| Marine water | | 0 mg/l |
| Micro-organisms in sewage treatment plants (STP) | | 0,69 mg/l |

**Additional advice on limit values**

a no restriction
b End of exposure or end of shift
c at long-term exposure:
d before next shift

blood (B)
Urine (U)

## 8.2. Exposure controls

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Suitable eye protection:
EN 166

**Hand protection**

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.
Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min
Thickness of the glove material 0,45 mm
EN ISO 374

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Filtering device with filter or ventilator filtering device of type: A
Observe the wear time limits as specified by the manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:

Colour: green

| | | Test method |
|---|---|---|
| Melting point/freezing point: | not determined | |
| Boiling point or initial boiling point and boiling range: | 200 °C | |
| Flammability: | not applicable | |
| | not applicable | |
| Flash point: | > 200 °C | ISO 3679 |
| Decomposition temperature: | not determined | |
| pH-Value (at 20 °C): | | DIN 19268 |
| Viscosity / kinematic: (at 40 °C) | 268 mm²/s | DIN EN ISO 3104 |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. | |

Solubility in other solvents

not determined

| | | |
|---|---|---|
| Partition coefficient n-octanol/water: | not determined | |
| Vapour pressure: | not determined | |
| Density (at 20 °C): | 0,89 g/cm³ | DIN 51757 |
| Relative vapour density: | not determined | |

### 9.2. Other information

**Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive.

Self-ignition temperature

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

Oxidizing properties

Not oxidising.

**Other safety characteristics**

| | | |
|---|---|---|
| Evaporation rate: | not determined | |
| Solid content: | not determined | |
| Viscosity / dynamic: | | DIN 53019-1 |
| Flow time: (at 20 °C) | | DIN EN ISO 2431 |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Pyrophoric or self-heating substances.

**Further information**

Do not mix with other chemicals.

## SECTION 11: Toxicological information

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

**Toxicocinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

**ATEmix calculated**

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

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Exposure route | Dose | | Species | Source | Method |
| 68425-15-0 | Polysulfides, di-tert-dodecyl | | | | | |
| | oral | LD50 mg/kg | >2000 | Rat | | |
| | dermal | LD50 mg/kg | >2000 | Rabbit | | |
| | inhalation (4 h) vapour | LC50 | >20 mg/l | Rat | | |
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | | | | | |
| | oral | LD50 mg/kg | > 5000 | Rat | Study report (1982) | OECD Guideline 401 |
| | dermal | LD50 mg/kg | > 2000 | Rat | Study report (1988) | OECD Guideline 402 |
| | inhalation (4 h) dust/mist | LC50 | >5 mg/l | Rat | | |
| 25550-98-5 | Reaction products of triphenyl phosphite and isodecanol (1:2) | | | | | |
| | oral | LD50 mg/kg | >5000 | Rat | | |
| | dermal | LD50 mg/kg | >5000 | Rabbit | | |
| | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | | | | | |
| | oral | LD50 mg/kg | 3313 | Rat | Study report (1981) | OECD Guideline 401 |
| | dermal | LD50 mg/kg | > 2000 | Rat | Study report (2012) | OECD Guideline 402 |

**Irritation and corrosivity**

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

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

**Sensitising effects**

May cause an allergic skin reaction. (Polysulfides, di-tert-dodecyl; Reaction products of triphenyl phosphite and isodecanol (1:2); Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate; bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
No indications of human germ cell mutagenicity exist.
No indications of human reproductive toxicity exist.

**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.

**Information on likely routes of exposure**

, Inhalation, Skin contact, Eye contact.
Reference to other sections: 2.1, 4.2.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

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

### 11.2. Information on other hazards

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | | |
|---|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | | [h] \| [d] | Species | Source | Method |
| 68425-15-0 | Polysulfides, di-tert-dodecyl | | | | | | |
| | Acute fish toxicity | LC50 | >100 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | |
| | Acute algae toxicity | ErC50 | >100 mg/l | 72 h | Selenastrum capricornutum | | |
| | Acute crustacea toxicity | EC50 | >100 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | | | | | | |
| | 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 | | Study report (2004) | OECD Guideline 202 |
| 25550-98-5 | Reaction products of triphenyl phosphite and isodecanol (1:2) | | | | | | |
| | Acute algae toxicity | ErC50 | 45 mg/l | 72 h | Desmodesmus subspicatus | Study report (1993) | other: 87/302/EEC, Algal inhibition test |
| | Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate | | | | | | |
| | Acute algae toxicity | ErC50 | > 100 mg/l | 72 h | Raphidocelis subcapitata | REACh Registration Dossier | OECD Guideline 201 |
| | Acute bacteria toxicity | EC50 | > 1000 mg/l ( ) | 3 h | activated sludge of a predominantly domestic sewag | REACh Registration Dossier | OECD Guideline 209 |
| | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | | | | | | |
| | Acute fish toxicity | LC50 | 1,3 mg/l | 96 h | Danio rerio | Study report (1988) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 | 0,976 mg/l | 72 h | Desmodesmus subspicatus | Study report (2013) | OECD Guideline 201 |

## 12.2. Persistence and degradability

There are no data available on the mixture itself. 0

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | > 6 |
| 25550-98-5 | Reaction products of triphenyl phosphite and isodecanol (1:2) | 9,32 |
| | bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | 6,56 |

**BCF**

| CAS No | Chemical name | BCF | Species | Source |
|---|---|---|---|---|
| 68411-46-1 | Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene | 411 | Cyprinus carpio | Study report (2000) |
| 25550-98-5 | Reaction products of triphenyl phosphite and isodecanol (1:2) | 606,5 | | US EPA (2009) |
| | bis(2-ethylhexyl) [(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl) [(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl) [(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine | 1676 | | EPIWIN (2011) |

### 12.4. Mobility in soil

No information available.

### 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 information available.

**Further information**

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

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

**List of Wastes Code - residues/unused products**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

**List of Wastes Code - used product**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; 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**

Completely emptied packages can be recycled.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number or ID 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 or ID 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 or ID 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 pollutant: | no |

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

| | |
|---|---|
| **14.1. UN number or ID 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. |

**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 75

| | |
|---|---|
| Directive 2010/75/EU on industrial emissions: | No information available. |
| Directive 2004/42/EC on VOC in paints and varnishes: | No information available. |
| Information according to Directive 2012/18/EU (SEVESO III): | Not subject to 2012/18/EU (SEVESO III) |

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**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): 2,11.

**Abbreviations and acronyms**

Skin Irrit: Skin irritation
Skin Sens: Skin sensitisation
Repr: Reproductive toxicity
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
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 (division of the American Chemical Society)
DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level
WEL: Workplace Exposure Limits
TWA (EC): Time-Weighted Average
ATE: Acute Toxicity Estimate
ATEL (EC): Short Term Exposure Limit
LC50: Lethal Concentration
EC50:half maximal Effective Concentration
ErC50: means EC50 in terms of reduction of growth rate

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

| Classification | Classification procedure |
|---|---|
| Skin Sens. 1; H317 | Calculation method |

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

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H361f | Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H411 | 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 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 data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*