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

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

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### 1.1. Product identifier

**Trade name/designation:**

RAVENOL TSi SAE 10W-40

**Article No.:**
1112110

**UFI:**
9J7T-Y6PN-F102-9PYR

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

**Use of the substance/mixture:**
Lubricant

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Ravensberger Schmierstoffvertrieb GmbH**
Produktsicherheit
Jöllenbecker Str. 2
33824 Werther
Germany

**Telephone:** +49 5203 9719 0

**Telefax:** +49 5203 9719 40

**E-mail:** kontakt@ravenol.de

**Website:** www.ravenol.de

**E-mail (competent person):** sdb@ravenol.de

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### 1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +49 700 24 112 112 (Contract ID: RAV) / +1 872 5888271 (Contract ID: RAV)

# SECTION 2: Hazards identification

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### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

| Hazard classes and hazard categories | Hazard statements | Classification pro cedure |
|---|---|---|
| Serious eye damage/eye irritation *(Eye Irrit. 2)* | H319: Causes serious eye irritation. | Calculation method. |

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### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms:**

**GHS07**
Exclamation mark

**Signal word:** Warning

**Hazard components for labelling:**
Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(dithiophosphate)

| hazard statements for health hazards | |
|---|---|
| H319 | Causes serious eye irritation. |

**Supplemental hazard information:** -

| Precautionary statements Prevention | |
|---|---|
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

| Precautionary statements Response | |
|---|---|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

| Precautionary statements Disposal | |
|---|---|
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |

### 2.3. Other hazards

**Other adverse effects:**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition / information on ingredients

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### 3.2. Mixtures

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concen-tration |
|---|---|---|
| **CAS No.:** 26566-95-0<br>**EC No.:** 247-810-2 | **Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(dithiophosphate)**<br>Aquatic Chronic 2 (H411), Eye Dam. 1 (H318) | 0 – < 2 weight-% |
| **CAS No.:** 148520-84-7<br>**EC No.:** 800-941-4 | **Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, calcium salts**<br>Skin Sens. 1B (H317)<br>**Warning**<br>**Specific concentration limit (SCL)**<br>Skin Sens. 1B; H317: 10% ≤ C < 100% | 0 – < 0.8 weight-% |
| **CAS No.:** 70024-69-0<br>**EC No.:** 274-263-7<br>**REACH No.:** 01-2119492616-28 | **Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts**<br>Skin Sens. 1B (H317)<br>**Warning**<br>**Specific concentration limit (SCL)**<br>Skin Sens. 1B; H317: 10% ≤ C < 100% | 0 – < 0.3 weight-% |
| **CAS No.:** 68784-26-9<br>**EC No.:** 701-251-5<br>**REACH No.:** 01-2119524004-56 | **Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased**<br>Aquatic Chronic 4 (H413), Repr. 1B (H360)<br>**Danger** | 0 – < 0.3 weight-% |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

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### 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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

**Following inhalation:**

Provide fresh air. Consult a doctor immediately.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

**After eye contact:**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Causes serious eye irritation.

**Following ingestion:**

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

**Self-protection of the first aider:**

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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### 4.2. Most important symptoms and effects, both acute and delayed
Serious eye damage/eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Observe risk of aspiration if vomiting occurs.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media
**Suitable extinguishing media:**
Co-ordinate fire-fighting measures to the fire surroundings.
Carbon dioxide (CO2)
Extinguishing powder
alcohol resistant foam
Use water spray jet to protect personnel and to cool endangered containers.

**Unsuitable extinguishing media:**
Full water jet

### 5.2. Special hazards arising from the substance or mixture
During heating or in case of fire, toxic gases is possible.
The formation of combustible vapours is possible at temperatures above: Flash point
When hot, product develops flammable vapours.

**Hazardous combustion products:**
Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Gases/vapours, toxic
During heating or in case of fire, toxic gases is possible.

### 5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Protective clothing.

### 5.4. Additional information
Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. 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
#### 6.1.1. For non-emergency personnel
**Personal precautions:**
Use personal protection equipment. Special danger of slipping by leaking/spilling product.

**Protective equipment:**
Personal protection equipment: see section 8

**Emergency procedures:**
Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

#### 6.1.2. For emergency responders
**Personal protection equipment:**
Use personal protection equipment.

### 6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up
**For containment:**
Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids
Prevent spread over a wide area (e.g. by containment or oil barriers).

**For cleaning up:**
Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**Other information:**
Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

### 6.5. Additional information
Clear spills immediately. Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

**Advices on safe handling:**
Wear personal protection equipment (refer to section 8).
When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

**Fire prevent measures:**
No special fire protection measures are necessary.

**Environmental precautions:**
Shafts and sewers must be protected from entry of the product.

#### Advices on general occupational hygiene
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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

**Technical measures and storage conditions:**
Keep container tightly closed in a cool, well-ventilated place.

**Requirements for storage rooms and vessels:**
Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.
Keep/Store only in original container.

**Hints on storage assembly:**
not required

**Storage class (TRGS 510, Germany):** 10 – Combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions:**
Store in a cool dry place. Keep away from heat.

### 7.3. Specific end use(s)

**Recommendation:**
Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values
No data available

#### 8.1.2. Biological limit values
No data available

### 8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| Lubricating oils (petroleum), C>25, solvent-extd., deasphalted, dewaxed, hydrogenated<br>CAS No.: 101316-69-2<br>EC No.: 309-874-0 | 2.73 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| Lubricating oils (petroleum), C>25, solvent-extd., deasphalted, dewaxed, hydrogenated<br>CAS No.: 101316-69-2<br>EC No.: 309-874-0 | 5.58 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, local effects |
| Lubricating oils (petroleum), C>25, solvent-extd., deasphalted, dewaxed, hydrogenated<br>CAS No.: 101316-69-2<br>EC No.: 309-874-0 | 0.97 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(di thiophosphate)<br>CAS No.: 26566-95-0<br>EC No.: 247-810-2 | 6.6 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 11.75 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 3.33 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1 mg/l | ① PNEC aquatic, freshwater |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1 mg/l | ① PNEC aquatic, marine water |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1,000 mg/l | ① PNEC sewage treatment plant |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 16.667 mg/kg bw/day | ① PNEC secondary poisoning |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 10 mg/l | ① PNEC aquatic, intermittent release |

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

### 8.2.2. Personal protection equipment

**Eye/face protection:**

During transfer: Eye glasses with side protection
Wear eye/face protection. EN 166

**Skin protection:**
Hand protection
Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)
Thickness of the glove material: >= 0,4 mm
Breakthrough time: 480 min
Breakthrough times and swelling properties of the material must be taken into consideration.
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
Suitable protective clothing: Protective clothing

**Respiratory protection:**
Usually no personal respirative protection necessary.

### 8.2.3. Environmental exposure controls
See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

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

**Appearance**
**Physical state:** Liquid **Colour:** tawny
**Odour:** characteristic

**Safety relevant basis data**

| parameter | | at °C | Method | Remark |
|---|---|---|---|---|
| pH | *not applicable* | | | |
| Melting point | *not determined* | | | |
| Freezing point | *not determined* | | | |
| Initial boiling point and boiling range | *not determined* | | | |
| Decomposition temperature | *not applicable* | | | |
| Flash point | 224 °C | | | |
| Evaporation rate | *not determined* | | | |
| Auto-ignition temperature | *not determined* | | | |
| Upper/lower flammability or explosive limits | *not determined* | | | |
| Vapour pressure | *not determined* | | | |
| Vapour density | *not determined* | | | |
| Density | 867 kg/m³ | 15 °C | | |
| Relative density | *not applicable* | | | |
| Bulk density | *not applicable* | | | |
| Water solubility | The study does not need to be conducted because the substance is known to be insoluble in water. | | | |
| Partition coefficient: n-octanol/ water | *not applicable* | | | |
| Dynamic viscosity | *not determined* | | | |
| Kinematic viscosity | 100 mm²/s | 40 °C | | |

### 9.2. Other information
Not applicable.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
No known hazardous reactions. Risk of explosion if heated under confinement.

### 10.2. Chemical stability
The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid
To avoid thermal decomposition do not overheat.

### 10.5. Incompatible materials
Materials to avoid: Acid, Oxidizing agent, Reducing agent

### 10.6. Hazardous decomposition products
Hazardous combustion products: Carbon dioxide Carbon monoxide Nitrogen oxides (NOx)

### Further information
No information available.

## SECTION 11: Toxicological information

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

| Substance name | Toxicological information |
|---|---|
| Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(dithiophosphate)<br>CAS No.: 26566-95-0<br>EC No.: 247-810-2 | **$LD_{50}$ oral:**<br>2,900 mg/kg (rats)<br>**$LD_{50}$ dermal:**<br>>5,000 mg/kg (rabbits) |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | **$LD_{50}$ oral:**<br>>5,000 mg/kg (Rat)<br>**$LD_{50}$ dermal:**<br>>2,000 mg/kg (Rabbit) |

**Acute oral toxicity:**
Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**
No irritant effect.

**Serious eye damage/irritation:**
Causes serious eye irritation.

**Respiratory or skin sensitisation:**
No sensitizing effects known.

**Germ cell mutagenicity:**
No indications of human germ cell mutagenicity exist.

**Carcinogenicity:**
No indication of human carcinogenicity.

**Reproductive toxicity:**
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:**
Observe risk of aspiration if vomiting occurs.
For viscosity data, see section 9.

**Additional information:**
Frequently or prolonged contact with skin may cause dermal irritation.

### 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.

# SECTION 12: Ecological information

## * 12.1. Toxicity

| Substance name | Toxicological information |
|---|---|
| Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(dithiophosphate)<br>CAS No.: 26566-95-0<br>EC No.: 247-810-2 | **$LC_{50}$:** 4.4 mg/l 4 d (fish)<br>**NOEC:** 32 mg/l 2 d (crustaceans)<br>**$EC_{50}$:** 75 mg/l 2 d (crustaceans)<br>**$ErC_{50}$:** 410 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus) |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | **$LC_{50}$:** >1,000 mg/l 4 d (fish)<br>**$EC_{50}$:** >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))<br>**$ErC_{50}$:** >1,000 mg/l 3 d (Algae/water plant) |

**Assessment/classification:**
The substance/mixture does not fullfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

**Additional ecotoxicological information:**
Do not allow uncontrolled discharge of product into the environment.

## 12.2. Persistence and degradability

**Biodegradation:**
Not readily biodegradable (according to OECD criteria)

## * 12.3. Bioaccumulative potential

| Substance name | Log $K_{OW}$ | Bioconcentration factor (BCF) |
|---|---|---|
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 22.12 | |

**Partition coefficient: n-octanol/water:**
not applicable

**Accumulation / Evaluation:**
The product has not been tested.

## 12.4. Mobility in soil

The product has not been tested.

## * 12.5. Results of PBT and vPvB assessment

| Substance name | Results of PBT and vPvB assessment |
|---|---|
| Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(dithiophosphate)<br>CAS No.: 26566-95-0<br>EC No.: 247-810-2 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, calcium salts<br>CAS No.: 148520-84-7<br>EC No.: 800-941-4 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased<br>CAS No.: 68784-26-9<br>EC No.: 701-251-5 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

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

Dispose of waste according to applicable legislation.

### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

**Waste code packaging:**

**Remark:**

Dispose of waste according to applicable legislation.

### Waste treatment options

**Appropriate disposal / Product:**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package:**

Non-contaminated packages may be recycled.

**Other disposal recommendations:**

Consult the appropriate local waste disposal expert about waste disposal.

### 13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| **14.2. UN proper shipping name** | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es)** | | | |
| not relevant | | | |
| **14.4. Packing group** | | | |
| not relevant | | | |
| **14.5. Environmental hazards** | | | |
| not relevant | | | |
| **14.6. Special precautions for user** | | | |
| not relevant | | | |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

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

### 15.1.1. EU legislation

**Other regulations (EU):**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

• E2 Hazardous to the Aquatic Environment in Category Chronic 2

Safety data sheet available on request.

### 15.1.2. National regulations

#### [DE] National regulations

**Restrictions of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

**Störfallverordnung**

**for substances contained in the product:**

This product is not assigned to a hazard category.

**for substances possibly developing during an incident:**

Hazard categories:

- E2 Hazardous to the Aquatic Environment in Category Chronic 2

**Technische Anleitung Luft (TA-Luft)**

**Remark:**

To follow: 5.2.5

**Water hazard class**

**WGK:**

2 - deutlich wassergefährdend

**Source:**

Self-classification (mixture; calculation rule).
Identification number 436

**Technische Regeln für Gefahrstoffe**

TRGS 510
TRGS 500

**Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)**

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868
Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

**Other regulations, restrictions and prohibition regulations**

Altöl-Verordnung (AltölV)

#### [DK] National regulations

**Other regulations, restrictions and prohibition regulations**

Dänemark: Bekendtgørelse af lov om arbejdsmiljø: Beskæftigelsesministeriets lovbekendtgørelse nr. 1072 af 7. september 2010
Lister over stoffer og processer, der anses for at vaere kraeftfremkaldende

#### [FR] National regulations

**Other regulations, restrictions and prohibition regulations**

Frankreich: Tableaux de maladies professionelles
Nomenclature des installations classées pour la protection de l'environnement
Articles L. 4523-1 à L. 4523-17, L. 4611-1 à L. 4614-16, R. 4523-1 à R. 4523-17 et R. 4612-1 à R. 4615-21 du Code du travail

#### [NL] National regulations

**Other regulations, restrictions and prohibition regulations**

Niederlande: Lijst vank kankerverwekkende, mutagene en voor de voortplanting giftige stoffen (SZW)
Algemeene beoordelingsmethodiek Water (ABM)
Nederlandse emissierichtlijn (NeR)
NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Borstvoeding
NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Vruchtbaarheid
NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Ontwikkeling
SZW-lijst van kankerverwekkende stoffen
SZW-lijst van mutagene stoffen
Wet van 18 maart 1999, houdende bepalingen ter verbetering van de arbeidsomstandigheden (Arbeidsomstandighedenwet)
Wet op de ondernemingsraden 1971

## [CH] National regulations

### Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)
Gefahrencode
Brandverhütung, BVD (Schweiz)

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### 15.3. Additional information

No data available.

## SECTION 16: Other information

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### 16.1. Indication of changes

| | |
|---|---|
| 1.1. | Product identifier |
| 1.4. | Emergency telephone number |
| 2.1. | Classification of the substance or mixture |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 4.1. | Description of first aid measures |
| 4.2. | Most important symptoms and effects, both acute and delayed |
| 8.1. | Control parameters |
| 9.1. | Information on basic physical and chemical properties |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.3. | Bioaccumulative potential |
| 12.5. | Results of PBT and vPvB assessment |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes |
| 16.4. | Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] |
| 16.5. | Relevant R-, H- and EUH-phrases (Number and full text) |

### 16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive 1999/45/EEC - Dangerous Preparations Directive EC 1907/2006 - REACH Regulation 1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 (REACH), Annex II European Chemicals Agency (ECHA), C & L classification and labeling inventory European Chemicals Agency (ECHA), ECHA CHEM Registered substances OECD The Global Portal to Information on Chemical Substances (ChemPortal) Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

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

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

| Hazard classes and hazard categories | Hazard statements | Classification pro cedure |
|---|---|---|
| Serious eye damage/eye irritation *(Eye Irrit. 2)* | H319: Causes serious eye irritation. | Calculation method. |

## * 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| **Hazard statements** | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H360 | May damage fertility or the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

## 16.6. Training advice

No data available

## 16.7. Additional 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.

* Data changed compared with the previous version