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

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

## 1.1. Product identifier

**Trade name/designation:**

RAVENOL CVTF NS3/J4 Fluid

**Article No.:**
1211132

## 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**
Jöllenbecker Str. 2
33824 Werther
D

**Telephone:** +49 5203 9719 0
**Telefax:** +49 5203 9719 40
**E-mail:** kontakt@ravenol.de
**Website:** www.ravenol.de
**E-mail (competent person):** technik@ravenol.de

## 1.4. Emergency telephone number

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Contract ID: RAV) , +49 5203 9719 0 (Mo-Do 7.30 Uhr - 16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (Only available during office hours.)

# SECTION 2: Hazards identification

## 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 procedure |
|---|---|---|
| Acute toxicity (inhalative)<br>*(Acute Tox. 4)* | H332: Harmful if inhaled. | |

## 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:**
diphenylamine; Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.; Dec-1-ene, dimers, hydrogenated; Polymere

| hazard statements for health hazards | |
|---|---|
| H332 | Harmful if inhaled. |

| Supplemental Hazard information (EU) | |
|---|---|
| EUH208 | Contains Polymere, Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.. May produce an allergic reaction. |

| Precautionary statements Prevention | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |

| Precautionary statements Response | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor/Emergency telephone number if you feel unwell. |

| Precautionary statements Disposal | |
|---|---|
| P501 | Dispose of contents/container to according to official regulations for disposal. |

### 2.3. Other hazards
No data available

## SECTION 3: Composition / information on ingredients

* 
### 3.2. Mixtures
**Additional information:**
The base oil / mineral oil used has a value of less than 3% DMSO, so it is not classified as a carcinogen.

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

| product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concen-tration |
|---|---|---|
| **CAS No.:** 68649-11-6<br>**EC No.:** 500-228-5 | **Dec-1-ene, dimers, hydrogenated**<br>Acute Tox. 4, Asp. Tox. 1<br>**Danger** H304-H332 | 15 – < 30 Wt % |
| **CAS No.:** 1809-19-4<br>**EC No.:** 217-316-1 | **dibutyl phosphonate**<br>Eye Irrit. 2, Skin Irrit. 2<br>H315-H319 | 1 – < 2 Wt % |
| **CAS No.:** 36878-20-3<br>**EC No.:** 253-249-4 | **bis(nonylphenyl)amine**<br>Aquatic Chronic 4<br>H413 | 1 – < 2 Wt % |
| **CAS No.:** 122-39-4<br>**EC No.:** 204-539-4 | **diphenylamine**<br>Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 1<br>H301-H311-H331-H400-H410 | 0 – < 1 Wt % |
| **CAS No.:** 61791-44-4<br>**EC No.:** 263-177-5 | **Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.**<br>Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1<br>H302-H314-H317-H412 | 0 – < 1 Wt % |
| | **Polymere**<br>Skin Sens. 1<br>H317 | 0 – < 1 Wt % |

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

## 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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious 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.

**After 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.

### 4.2. Most important symptoms and effects, both acute and delayed
No known symptoms to date.

### 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. Remove persons to safety.

**Protective equipment:**
Wear protective gloves/protective clothing/eye protection/face protection.

#### 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

**For cleaning up:**
Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (e.g. 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:**
When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Avoid oil mist. 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:**
See section 8.

#### 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:** 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

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| **Limit value type (country of origin)** | **Substance name** | **① long-term occupational exposure limit value<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark** |
|---|---|---|
| DFG (DE) | Dec-1-ene, dimers, hydrogenated<br>CAS No.: 68649-11-6 | ① 5 mg/m³<br>② 20 mg/m³<br>⑤ (alveolengängige Fraktion) |
| CH | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden) |
| BE | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| CZ | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>② 20 mg/m³ |

| **Limit value type (country of origin)** | **Substance name** | **① long-term occupational exposure limit value**<br>**② short-term occupational exposure limit value**<br>**③ Instantaneous value**<br>**④ Monitoring and observation processes**<br>**⑤ Remark** |
|---|---|---|
| NO | diphenylamine<br>CAS No.: 122-39-4 | ① 5 mg/m³ |
| IE | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>② 20 mg/m³ |
| MY | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| FI | diphenylamine<br>CAS No.: 122-39-4 | ① 5 mg/m³<br>② 10 mg/m³ |
| LT | diphenylamine<br>CAS No.: 122-39-4 | ① 4 mg/m³<br>② 12 mg/m³<br>⑤ |
| SE | diphenylamine<br>CAS No.: 122-39-4 | ① 4 mg/m³<br>③ 12 mg/m³ |
| MAK (AT) | diphenylamine<br>CAS No.: 122-39-4 | ① 0.7 ppm (5 mg/m³)<br>⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden) |
| MAK (AT) | diphenylamine<br>CAS No.: 122-39-4 | ② 1.4 ppm (10 mg/m³)<br>⑤ (einatembare Fraktion, max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) |
| DK | diphenylamine<br>CAS No.: 122-39-4 | ① 5 mg/m³<br>② 10 mg/m³ |
| BG | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| HR | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>② 20 mg/m³ |
| RO | diphenylamine<br>CAS No.: 122-39-4 | ① 4 mg/m³<br>② 6 mg/m³ |
| EE | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| Alberta (CA) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| ES | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| BC (CA) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| DFG (DE) | diphenylamine<br>CAS No.: 122-39-4 | ① 5 mg/m³<br>② 10 mg/m³<br>⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden) |
| VLA (FR) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| WEL (GB) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>② 20 mg/m³ |
| SI | diphenylamine<br>CAS No.: 122-39-4 | ① 5 mg/m³<br>⑤ (frakcija ki jo je mogoče vdihniti, računati je treba z možnostjo prodiranja skozi kožo) |
| TW | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| KR | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| IS | diphenylamine<br>CAS No.: 122-39-4 | ① 5 mg/m³ |

| Limit value type (country of origin) | Substance name | ① long-term occupational exposure limit value<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|---|---|---|
| CN | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| GR | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>② 20 mg/m³ |
| NIOSH (US) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |
| ACGIH (US) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³<br>⑤ (A4) |
| Québec (CA) | diphenylamine<br>CAS No.: 122-39-4 | ① 10 mg/m³ |

### 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 |
|---|---|---|
| dibutyl phosphonate<br>CAS No.: 1809-19-4 | 7 mg/m³ | ① DNEL worker<br>② DNEL long-term inhalative (systemic) |

## 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

**Skin protection:**
Hand protection
Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride)
Thickness of the glove material: >= 0,4 mm
Breakthrough time (maximum wearing 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.

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.

## 8.3. Additional information
Mineral oil mist limits:
OSHA PEL - value 5 mg / m³, ACGIH STEL - value of 10 mg / m³

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

### Appearance
**Physical state:** Liquid
**Colour:** green
**Odour:** characteristic

### Safety relevant basis data

| parameter | | at °C | Method | Remark |
|---|---|---|---|---|
| pH | *not determined* | | | |
| Melting point | *not determined* | | | |
| Freezing point | -57 °C | | | |
| Initial boiling point and boiling range | *not determined* | | | |
| Decomposition temperature | *not determined* | | | |
| Flash point | > 186 °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 | 836 kg/m³ | 20 °C | | |
| Bulk density | *not determined* | | | |
| Water solubility | The study does not need to be conducted bec ause the substa nce is known to be insoluble in water. | | | |
| Partition coefficient: n-octanol/ water | *not determined* | | | |
| Dynamic viscosity | *not determined* | | | |
| Kinematic viscosity | 27.5 mm²/s | 40 °C | | |

### 9.2. Other information

No data available

## 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, Oxidising agent, Reducing agent

### 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide Carbon monoxide Nitrogen oxides (NOx)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| CAS No. | Substance name | Toxicological information |
|---|---|---|
| 36878-20-3 | bis(nonylphenyl)amine | **$LD_{50}$ oral:** 5,000 g/m³ (Rat) **$LD_{50}$ dermal:** >2,000 g/m³ (Rabbit) |
| 122-39-4 | diphenylamine | **$LD_{50}$ oral:** 1,120 mg/kg |

**Acute oral toxicity:**

There are no data available on the preparation/mixture itself.

**Acute dermal toxicity:**
There are no data available on the preparation/mixture itself.

**Acute inhalation toxicity:**
There are no data available on the preparation/mixture itself. May be harmful if inhaled.

**Skin corrosion/irritation:**
No known hazardous reactions.

**Serious eye damage/irritation:**
No known hazardous reactions.

**Respiratory or skin sensitisation:**
Contains diphenylamine; Ethanol, 2,2'-Iminobis-, N-tallow alkyl derivatives; 1-decenes, dimer, hydrogenated; polymer. May produce an allergic reaction.

**Germ cell mutagenicity:**
No information available.

**Carcinogenicity:**
No information available.

**Reproductive toxicity:**
There are no data available on the preparation/mixture itself.

**STOT-single exposure:**
There are no data available on the preparation/mixture itself.

**STOT-repeated exposure:**
There are no data available on the preparation/mixture itself.

**Aspiration hazard:**
Observe risk of aspiration if vomiting occurs.

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No. | Substance name | Toxicological information |
|---|---|---|
| 36878-20-3 | bis(nonylphenyl)amine | **$LC_{50}$:** >100 mg/l 4 d<br>**$EC_{50}$:** >100 mg/l 2 d<br>**$EC_{50}$:** 600 mg/l 3 d |
| 122-39-4 | diphenylamine | **$LC_{50}$:** 3.79 mg/l 4 d<br>**$EC_{50}$:** 1.16 mg/l 2 d<br>**$EC_{50}$:** 2.17 mg/l 3 d<br>**$LC_{50}$:** 2.2 mg/l 2 d<br>**$EC_{50}$:** 0.31 mg/l 2 d (Wasserfloh)<br>**$EC_{50}$:** 1.51 mg/l 3 d (Grünalgen) |

### 12.2. Persistence and degradability

| CAS No. | Substance name | Biodegradation | Remark |
|---|---|---|---|
| 68649-11-6 | Dec-1-ene, dimers, hydrogenated | Yes, rapidly | |
| 36878-20-3 | bis(nonylphenyl)amine | No | |

**Additional information:**
Some of the components are poorly biodegradable.

### 12.3. Bioaccumulative potential

| CAS No. | Substance name | Log $K_{OC}$ | Bioconcentration factor (BCF) |
|---|---|---|---|
| 36878-20-3 | bis(nonylphenyl)amine | 7.6 | 1,584.89 |
| 122-39-4 | diphenylamine | 3.4 | |

### 12.4. Mobility in soil
No data available

### 12.5. Results of PBT and vPvB assessment

| CAS No. | Substance name | Results of PBT and vPvB assessment |
|---|---|---|
| 68649-11-6 | Dec-1-ene, dimers, hydrogenated | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 1809-19-4 | dibutyl phosphonate | — |
| 36878-20-3 | bis(nonylphenyl)amine | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 122-39-4 | diphenylamine | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 61791-44-4 | Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| | Polymere | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |

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

### 12.6. 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 product:**

**Remark:**

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

**Waste code packaging:**

**Remark:**

Dispose of waste according to applicable legislation.

### Waste treatment options

**Appropriate disposal / Product:**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

**Appropriate disposal / Package:**

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | |
|---|---|---|---|
| **14.1. UN-No.** | | | |
| 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. | |
| **14.3. Transport hazard class(es)** | | | |
| not relevant | | | |
| **14.4. Packing group** | | | |
| not relevant | | | |
| **14.5. Environmental hazards** | | | |
| not relevant | | | |

| Land transport (ADR/ RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | |
|---|---|---|---|

### 14.6. Special precautions for user

not relevant

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

**Other regulations (EU):**

Safety data sheet available for professional user 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.

**Water hazard class (WGK)**

**WGK:**

2 - deutlich wassergefährdend

**Description:**

hazardous to water (WGK 2)

**Source:**

Classification according to VwVwS, Annex 4.

**Technische Regeln für Gefahrstoffe**

TRGS 510
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

**Berufsgenossenschaftliche Vorschriften (BGV)**

Berufsgenossenschaftliche Informationen (BGI) 868
Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195

**Other regulations, restrictions and prohibition regulations**

Altöl-Verordnung (AltölV)

#### [DK] National regulations

**Other regulations, restrictions and prohibition regulations**

Lister over stoffer og processer, der anses for at være kræftfremkaldende

#### [FR] National regulations

**Other regulations, restrictions and prohibition regulations**

Tableaux de maladies professionnelles
Nomenclature des installations classées pour la protection de l‘environnement

#### [NL] National regulations

**Other regulations, restrictions and prohibition regulations**

Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW
Algemeene beoordelingsmethodiek Water (ABM)
Nederlandse emissierichtlijn (NeR)

#### [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.

# SECTION 16: Other information

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## 16.1. Indication of changes

| | |
|---|---|
| 3.2. | Mixtures |
| 16.1. | Indication of changes |

## 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)

## 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 procedure |
|---|---|---|
| Acute toxicity (inhalative)<br>*(Acute Tox. 4)* | H332: Harmful if inhaled. | |

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

| Hazard statements | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| 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. |

## 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