

**VA-DOT 4+**

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

**1.1. Product identifier**

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

**Use of the substance/mixture**

brake fluids

**Uses advised against**

No information available.

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

Company name: Vierol AG  
Street: Karlstrasse 19  
Place: D-26123 Oldenburg  
Telephone: +49 (0) 441 – 210 20 – 0  
E-mail: info@vierol.de  
Internet: www.vierol.de  
Telefax: +49 (0) 441 – 210 20 – 111

**1.4. Emergency telephone number:**

Giftinformationszentrum Nord (Göttingen)  
+49 (0)551/19240

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**GB CLP Regulation**

Repr. 2; H361fd

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**

**GB CLP Regulation**

**Hazard components for labelling**

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

**Signal word:** Warning

**Pictograms:**



**Hazard statements**

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents / container in accordance with official regulations.

**2.3. Other hazards**

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name  |              |                  | Quantity       |
|------------|--|--------------|------------------|----------------|
|            | EC No  | Index No     | REACH No         |                |
|            | GHS Classification                                   |              |                  |                |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate |              |                  | >= 50 - < 70 % |
|            | 250-418-4  |              | 01-2119462824-33 |                |
|            | Repr. 2; H361fd                                      |              |                  |                |
| 110-97-4   | 1,1'-iminodipropan-2-ol; di-isopropanolamine         |              |                  | >= 1 - < 10 %  |
|            | 203-820-9  | 603-083-00-7 |                  |                |
|            | Eye Irrit. 2; H319                                   |              |                  |                |
| 111-46-6   | 2,2'-oxybisethanol; diethylene glycol                |              |                  | >= 1 - < 10 %  |
|            | 203-872-2  | 603-140-00-6 | 01-2119457857-21 |                |
|            | Acute Tox. 4; H302                                   |              |                  |                |

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               |  |                |
| 30989-05-0 | 250-418-4  | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | >= 50 - < 70 % |
|            | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg |  |                |
| 110-97-4   | 203-820-9  | 1,1'-iminodipropan-2-ol; di-isopropanolamine         | >= 1 - < 10 %  |
|            | oral: LD50 = 4765 mg/kg                                |  |                |
| 111-46-6   | 203-872-2  | 2,2'-oxybisethanol; diethylene glycol                | >= 1 - < 10 %  |
|            | dermal: LD50 = 11890 mg/kg; oral: LD50 = 16500 mg/kg   |  |                |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Personal protection equipment: see section 8

Never give anything by mouth to an unconscious person or a person with cramps.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing.

When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

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

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

If skin irritation occurs: Get medical advice/attention.

#### 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.

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Remove contact lenses, if present and easy to do. Continue rinsing.

#### **After ingestion**

Rinse mouth thoroughly with water.  
Let water be drunk in little sips (dilution effect).  
Do NOT induce vomiting.  
Seek medical advice immediately.

#### **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.  
- alcohol resistant foam  
- Extinguishing powder  
- Carbon dioxide (CO<sub>2</sub>)  
- Water mist

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

Full water jet

#### **5.2. Special hazards arising from the substance or mixture**

Non-flammable. Formation of toxic gases is possible during heating or in case of fire.  
In case of fire may be liberated:  
- Carbon monoxide (CO)  
- Carbon dioxide (CO<sub>2</sub>).  
- Nitrogen oxides (NO<sub>x</sub>)  
- Pyrolysis products, toxic

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Suppress gases/vapours/mists with water spray jet.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Dispose of waste according to applicable legislation.

### SECTION 6: Accidental release measures

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

##### **General advice**

Keep people at a distance and stay on the windward side.  
Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.

#### **6.2. Environmental precautions**

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

Stop leak if safe to do so.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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**For cleaning up**

- Collect in closed and suitable containers for disposal.
- Treat the recovered material as prescribed in the section on waste disposal.
- 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**

- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Do not breathe gas/fumes/vapour/spray.
- Avoid contact with skin, eyes and clothes.
- Use personal protective equipment as required.

**Advice on protection against fire and explosion**

- No special fire protection measures are necessary.

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

**Requirements for storage rooms and vessels**

- Keep locked up.
- Keep container tightly closed in a cool, well-ventilated place.
- Keep only in the original container.

**Hints on joint storage**

- Do not store together with:
  - Materials capable of ignition under almost all normal temperature conditions
  - Explosives

**7.3. Specific end use(s)**

brake fluids

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

| CAS No   | Substance         | ppm | mg/m <sup>3</sup> | fibres/ml | Category  | Origin |
|----------|-------------------|-----|-------------------|-----------|-----------|--------|
| 111-46-6 | 2,2'-Oxydiethanol | 23  | 101               |           | TWA (8 h) | WEL    |

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**DNEL/DMEL values**

| CAS No                   | Substance  |          |                        |  |
|--------------------------|--|----------|------------------------|--|
| DNEL type                | Exposure route                                       | Effect   | Value                  |  |
| 30989-05-0               | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate |          |                        |  |
| Worker DNEL, long-term   | inhalation   | systemic | 14,8 mg/m <sup>3</sup> |  |
| Worker DNEL, long-term   | dermal   | systemic | 4,2 mg/kg bw/day       |  |
| Consumer DNEL, long-term | inhalation   | systemic | 2,6 mg/m <sup>3</sup>  |  |
| Consumer DNEL, long-term | dermal   | systemic | 1,5 mg/kg bw/day       |  |
| Consumer DNEL, long-term | oral   | systemic | 1,5 mg/kg bw/day       |  |
| 110-97-4                 | 1,1'-iminodipropan-2-ol; di-isopropanolamine         |          |                        |  |
| Worker DNEL, long-term   | dermal   | systemic | 12,5 mg/kg bw/day      |  |
| Worker DNEL, long-term   | inhalation   | systemic | 16 mg/m <sup>3</sup>   |  |
| Consumer DNEL, long-term | dermal   | systemic | 6,3 mg/kg bw/day       |  |
| Consumer DNEL, acute     | inhalation   | systemic | 3,9 mg/m <sup>3</sup>  |  |
| Consumer DNEL, long-term | oral   | systemic | 1,3 mg/kg bw/day       |  |
| 111-46-6                 | 2,2'-oxybisethanol; diethylene glycol                |          |                        |  |
| Worker DNEL, long-term   | inhalation   | systemic | 44 mg/m <sup>3</sup>   |  |
| Worker DNEL, long-term   | inhalation   | local    | 60 mg/m <sup>3</sup>   |  |
| Worker DNEL, long-term   | dermal   | systemic | 43 mg/kg bw/day        |  |
| Consumer DNEL, long-term | inhalation   | systemic | 12 mg/m <sup>3</sup>   |  |
| Consumer DNEL, long-term | inhalation   | local    | 12 mg/m <sup>3</sup>   |  |
| Consumer DNEL, long-term | dermal   | systemic | 21 mg/kg bw/day        |  |

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**PNEC values**

| CAS No   | Substance  | Value       |
|--|--|-------------|
| Environmental compartment                        |  |             |
| 30989-05-0                                       | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate |             |
| Freshwater                                       |  | 0,211 mg/l  |
| Freshwater (intermittent releases)               |  | 2,112 mg/l  |
| Marine water                                     |  | 0,021 mg/l  |
| Freshwater sediment                              |  | 0,76 mg/kg  |
| Marine sediment                                  |  | 0,076 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |  | 100 mg/l    |
| Soil   |  | 0,028 mg/kg |
| 110-97-4   | 1,1'-iminodipropan-2-ol; di-isopropanolamine         |             |
| Freshwater                                       |  | 0,2777 mg/l |
| Freshwater sediment                              |  | 2,33 mg/kg  |
| Marine sediment                                  |  | 0,233 mg/kg |
| Soil   |  | 0,303 mg/kg |
| 111-46-6   | 2,2'-oxybisethanol; diethylene glycol                |             |
| Freshwater                                       |  | 10 mg/l     |
| Freshwater (intermittent releases)               |  | 10 mg/l     |
| Marine water                                     |  | 1 mg/l      |
| Freshwater sediment                              |  | 20,9 mg/kg  |
| Marine sediment                                  |  | 2,09 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |  | 199,5 mg/l  |
| Soil   |  | 1,53 mg/kg  |

**8.2. Exposure controls**



**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations. Do not breathe gas/fumes/vapour/spray.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection. (EN166)

**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. 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. (EN ISO 374)

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: > 0,3 mm

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Breakthrough time: > 8h

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Half-face mask (EN 140)

Filter type: A (EN 141)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

#### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                  |                |
|------------------|----------------|
| Physical state:  | Liquid         |
| Colour:          | yellow         |
| Odour:           | characteristic |
| Odour threshold: | not determined |

|                      | Test method |
|----------------------|-------------|
| pH-Value (at 20 °C): | 7 - 8,5     |

#### Changes in the physical state

|   |                |           |
|---|----------------|-----------|
| Melting point/freezing point:                             | < -70 °C       | DIN 51583 |
| Boiling point or initial boiling point and boiling range: | > 260 °C       |           |
| Pour point:   | not determined |           |
| Flash point:  | 134 °C         |           |

#### Flammability

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

#### Explosive properties

The product is not: Explosive.

|                            |                   |
|----------------------------|-------------------|
| Lower explosion limits:    | not determined    |
| Upper explosion limits:    | not determined    |
| Auto-ignition temperature: | >200 °C DIN 51794 |

#### Self-ignition temperature

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

|                            |        |
|----------------------------|--------|
| Decomposition temperature: | 360 °C |
|----------------------------|--------|

#### Oxidizing properties

The product is not: oxidising.

|                     |   |
|---------------------|---|
| Vapour pressure:    | not determined                            |
| Density (at 20 °C): | 1,065 - 1,085 g/cm <sup>3</sup> DIN 51757 |
| Bulk density:       | not applicable                            |
| Water solubility:   | Water: miscible                           |

#### Solubility in other solvents

not determined

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|  |                            |
|--|----------------------------|
| Partition coefficient n-octanol/water: | not determined             |
| Viscosity / kinematic:<br>(at 20 °C)   | 15 - 17 mm <sup>2</sup> /s |
| 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**

No known hazardous reactions.

#### **10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **10.5. Incompatible materials**

Incompatible materials:

- Oxidizing agent
- Strong acid

#### **10.6. Hazardous decomposition products**

Hazardous decomposition products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).
- Nitrogen oxides (NO<sub>x</sub>)
- Pyrolysis products, toxic

### **SECTION 11: Toxicological information**

#### **11.1. Information on hazard classes as defined in GB CLP Regulation**

##### **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

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| CAS No     | Chemical name  |                   |         |  |                    |
|------------|--|-------------------|---------|--|--------------------|
|            | Exposure route                                       | Dose              | Species | Source                                       | Method             |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate |                   |         |  |                    |
|            | oral   | LD50 > 2000 mg/kg | Rat     | Study report (1995)                          | OECD Guideline 401 |
|            | dermal   | LD50 > 2000 mg/kg | Rat     | Study report (2010)                          | OECD Guideline 402 |
| 110-97-4   | 1,1'-iminodipropan-2-ol; di-isopropanolamine         |                   |         |  |                    |
|            | oral   | LD50 4765 mg/kg   | Rat     |  |                    |
| 111-46-6   | 2,2'-oxybisethanol; diethylene glycol                |                   |         |  |                    |
|            | oral   | LD50 16500 mg/kg  | Rat     | Journal of Industrial Hygiene and Toxicology |                    |
|            | dermal   | LD50 11890 mg/kg  | Rabbit  |  |                    |

#### 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

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. Suspected of damaging the unborn child. (Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

#### 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.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

See section: 12.6

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product has not been tested.

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| CAS No     | Chemical name  |                  |              |         |  |  |
|------------|--|------------------|--------------|---------|--|--|
|            | Aquatic toxicity                                     | Dose             | [h]   [d]    | Species | Source   | Method   |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate |                  |              |         |  |  |
|            | Acute fish toxicity                                  | LC50<br>mg/l     | 100,3        | 96 h    | Oncorhynchus mykiss                                | Study report (1987)<br>OECD Guideline 203  |
|            | Acute algae toxicity                                 | ErC50<br>mg/l    | > 224,4      | 72 h    | Raphidocelis subcapitata                           | Study report (1999)<br>EU Method C.3   |
|            | Acute bacteria toxicity                              | EC50<br>mg/l ( ) | > 1000       | 0,5 h   | The inoculum of the activated sludge originated fr | Study report (1999)<br>OECD Guideline 209  |
| 110-97-4   | 1,1'-iminodipropan-2-ol; di-isopropanolamine         |                  |              |         |  |  |
|            | Acute fish toxicity                                  | LC50<br>mg/l     | > 1000-2200  | 96 h    | Leuciscus idus                                     |  |
| 111-46-6   | 2,2'-oxybisethanol; diethylene glycol                |                  |              |         |  |  |
|            | Acute fish toxicity                                  | LC50<br>mg/l     | 75200        | 96 h    | Pimephales promelas                                | Center for Lake Superior Environmental S<br>Method: special acute fish toxicity test |
|            | Acute algae toxicity                                 | ErC50<br>mg/l    | 6500 - 13000 | 96 h    | Pseudokirchneriella subcapitata                    | Study report (1982)<br>other: EPA 600/9-78-018, 1978                                 |
|            | Acute crustacea toxicity                             | EC50<br>mg/l     | 62630        | 48 h    | Daphnia magna                                      | Secondary source (2006)<br>other: Acute Lethality Test Using Daphni                  |
|            | Fish toxicity  | NOEC<br>mg/l     | 15380        | 7 d     | Pimephales promelas                                | Environ. Toxicology and Chemistry, Vol.<br>other: EPA 600/4-89/001. U.S. Environmen  |
|            | Crustacea toxicity                                   | NOEC<br>mg/l     | 8590         | 7 d     | Ceriodaphnia dubia                                 | Environ. Toxicology and Chemistry, Vol.<br>other: EPA 600/4-89/001. U.S. Environmen  |

#### **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 |
|------------|--|---------|
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | -0,62   |
| 110-97-4   | 1,1'-iminodipropan-2-ol; di-isopropanolamine         | -0,82   |
| 111-46-6   | 2,2'-oxybisethanol; diethylene glycol                | -1,98   |

#### **BCF**

| CAS No   | Chemical name                         | BCF | Species                  | Source              |
|----------|---------------------------------------|-----|--------------------------|---------------------|
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | 100 | Leuciscus idus melanotus | Chemosphere 14(10): |

#### **12.4. Mobility in soil**

The product has not been tested.

#### **12.5. Results of PBT and vPvB assessment**

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

#### **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.

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#### **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. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

#### **Land transport (ADR/RID)**

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

#### **Inland waterways transport (ADN)**

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

#### **Marine transport (IMDG)**

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

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

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

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|   |  |
|---|--|
| Directive 2010/75/EU on industrial emissions:               | 69,9 % (744,435 g/l)                   |
| Directive 2004/42/EC on VOC in paints and varnishes:        | 19,98 % (212,787 g/l)                  |
| Information according to Directive 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). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| 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): 1,2,4,5,6,7,8,9,10,11,12,13,14,15,16.

#### Abbreviations and acronyms

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

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IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification  | Classification procedure |
|-----------------|--------------------------|
| Repr. 2; H361fd | Calculation method       |

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

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

H361fd

Suspected of damaging fertility. Suspected of damaging the unborn child.

#### 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*