

**VA-013 Ready Mix -20°C**

Revision date: 20.06.2023

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

**1.1. Product identifier**

VA-013 Ready Mix -20°C

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

**Use of the substance/mixture**

engine coolant

**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 | Telefax: +49 (0) 441 – 210 20 –111 |
| e-mail:       | info@vierol.de           |                                    |
| Internet:     | www.vierol.de            |                                    |

**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**

Acute Tox. 4; H302  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**

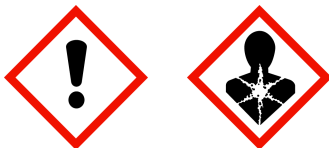
**GB CLP Regulation**

**Hazard components for labelling**

Ethane-1,2-diol  
Potassium 3,5,5-trimethylhexanoate

**Signal word:** Warning

**Pictograms:**



**Hazard statements**

|      |  |
|------|--|
| H302 | Harmful if swallowed.  |
| H315 | Causes skin irritation.  |
| H319 | Causes serious eye irritation.                                     |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

**Precautionary statements**

|                |   |
|----------------|---|
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray.  |
| P264           | Wash hands thoroughly after handling.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if        |

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P337+P313 present and easy to do. Continue rinsing.  
P501 If eye irritation persists: Get medical advice/attention.  
Dispose of contents / container in accordance with official regulations.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| CAS No     | Chemical name  |              |                  | Quantity    |
|------------|--|--------------|------------------|-------------|
|            | EC No  | Index No     | REACH No         |             |
|            | GHS Classification                                     |              |                  |             |
| 107-21-1   | Ethane-1,2-diol  |              |                  | 30 - < 35 % |
|            | 203-473-3  | 603-027-00-1 | 01-2119456816-28 |             |
|            | Acute Tox. 4, STOT RE 2; H302 H373                     |              |                  |             |
| 93918-10-6 | Potassium 3,5,5-trimethylhexanoate                     |              |                  | 1 - < 5 %   |
|            | 299-890-3  |              |                  |             |
|            | Acute Tox. 4, Skin Corr. 1, Eye Dam. 1; H302 H314 H318 |              |                  |             |

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             |             |
| 107-21-1   | 203-473-3 | Ethane-1,2-diol                                      | 30 - < 35 % |
|            |           | dermal: LD50 = > 3500 mg/kg; oral: LD50 = 7712 mg/kg |             |
| 93918-10-6 | 299-890-3 | Potassium 3,5,5-trimethylhexanoate                   | 1 - < 5 %   |
|            |           | oral: LD50 = >= 1160 mg/kg                           |             |

##### Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Take off contaminated clothing and wash it before reuse.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Remove person to fresh air and keep comfortable for breathing.  
In all cases of doubt, or when symptoms persist, seek medical advice.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, consult a physician.

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

##### After ingestion

Rinse mouth thoroughly with water.

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Let water be drunken in little sips (dilution effect).  
Do NOT induce vomiting.  
When in doubt or if symptoms are observed, get medical advice.

#### **4.2. Most important symptoms and effects, both acute and delayed**

May cause respiratory irritation. The following symptoms may occur: Cough, Dizziness, Headache  
May be absorbed through the skin. Repeated exposure may cause skin dryness or cracking.  
Causes serious eye irritation. The following symptoms may occur: erythema (redness)  
Harmful if swallowed. The following symptoms may occur: Vomiting, Unconsciousness, Nausea

#### **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>).  
- 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**

Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin, eyes and clothes.  
Use personal protection equipment.

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

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.

#### **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**

- Always close containers tightly after the removal of product.
- Do not put any product-impregnated cleaning rags into your trouser pockets.
- Clear spills immediately.
- Use only in well-ventilated areas.

**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 container tightly closed and in a well-ventilated place.
- Keep only in the original container. Store in a cool dry place.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**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)**

engine coolant

**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 |
|----------|-------------------------|-----|-------------------|-----------|---------------|--------|
| 107-21-1 | Ethane-1,2-diol, vapour | 20  | 52                |           | TWA (8 h)     | WEL    |
|          |                         | 40  | 104               |           | STEL (15 min) | WEL    |

**DNEL/DMEL values**

| CAS No                   | Substance       | Exposure route | Effect   | Value                |
|--------------------------|-----------------|----------------|----------|----------------------|
| 107-21-1                 | Ethane-1,2-diol |                |          |                      |
| Worker DNEL, long-term   |                 | inhalation     | local    | 35 mg/m <sup>3</sup> |
| Worker DNEL, long-term   |                 | dermal         | systemic | 106 mg/kg bw/day     |
| Consumer DNEL, long-term |                 | inhalation     | local    | 7 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                 | dermal         | systemic | 53 mg/kg bw/day      |

### PNEC values

| CAS No   | Substance       |            |
|--|-----------------|------------|
| Environmental compartment                        |                 | Value      |
| 107-21-1   | Ethane-1,2-diol |            |
| Freshwater                                       |                 | 10 mg/l    |
| Freshwater (intermittent releases)               |                 | 10 mg/l    |
| Marine water                                     |                 | 1 mg/l     |
| Freshwater sediment                              |                 | 37 mg/kg   |
| Marine sediment                                  |                 | 3,7 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.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

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

When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feedingstuffs.

#### Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face 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.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

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.

#### Skin protection

Wear suitable protective clothing. EN 14605

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

- Half-face mask (EN 140)

- Filter type: A/P (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)

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## SECTION 9: Physical and chemical properties

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

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

#### Test method

pH-Value (at 20 °C): 7,5 - 9,0

#### Changes in the physical state

Melting point/freezing point: < -20 °C ASTM D 1177

Boiling point or initial boiling point and boiling range: not determined

Flash point: not determined

#### Flammability

Solid/liquid: not applicable  
not applicable

#### Explosive properties

The product is not: Explosive.

Lower explosion limits: not determined

Upper explosion limits: not determined

#### Self-ignition temperature

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

The product is not: oxidising.

Vapour pressure: not determined

Density (at 20 °C): 1,044 g/cm<sup>3</sup>

Water solubility: easily soluble

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

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.

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**10.3. Possibility of hazardous reactions**

Reacts with : Oxidizing agent, Acids

**10.4. Conditions to avoid**

Avoid: Thermal decomposition

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Safe handling: see section 7

**10.5. Incompatible materials**

Materials to avoid:

- Oxidising agent
- Strong acid, alkalines

**10.6. Hazardous decomposition products**

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).
- Pyrolysis products, toxic

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1406,7 mg/kg

| CAS No     | Chemical name                      |                          |         |  |   |
|------------|------------------------------------|--------------------------|---------|--|---|
|            | Exposure route                     | Dose                     | Species | Source   | Method                                      |
| 107-21-1   | Ethane-1,2-diol                    |                          |         |  |   |
|            | oral                               | LD50<br>mg/kg<br>7712    | Rat     | Study report (1968)                            | according to<br>BASF-internal<br>standards  |
|            | dermal                             | LD50<br>mg/kg<br>> 3500  | Mouse   | Fundamental and<br>Applied Toxicology 27:<br>1 | LD50 derived from<br>developmental toxicity |
| 93918-10-6 | Potassium 3,5,5-trimethylhexanoate |                          |         |  |   |
|            | oral                               | LD50<br>mg/kg<br>>= 1160 | Rat     | Study report (1986)                            | OECD Guideline 401                          |

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

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

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

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

**STOT-single exposure**

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

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Ethane-1,2-diol)

**Aspiration hazard**

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

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#### 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

No information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No     | Chemical name                      |                         |      | [h]   [d]                       | Species                                 | Source                                   | Method |
|------------|------------------------------------|-------------------------|------|---------------------------------|---|--|--------|
| 107-21-1   | Ethane-1,2-diol                    |                         |      |                                 |   |  |        |
|            | Aquatic toxicity                   | Dose                    |      |                                 |   |  |        |
|            | Acute fish toxicity                | LC50 > 72860 mg/l       | 96 h | Pimephales promelas             | Environ. Toxicology and Chemistry, Vol. | EPA 600/4-90/027. U.S. Environmental Pro |        |
|            | Acute algae toxicity               | ErC50 6500 - 13000 mg/l | 96 h | Pseudokirchneriella subcapitata | Study report (1982)                     | other: EPA 600/9-78-018, 1978            |        |
|            | Acute crustacea toxicity           | EC50 > 100 mg/l         | 48 h | Daphnia magna                   | Study report (1998)                     | OECD Guideline 202                       |        |
|            | Fish toxicity                      | NOEC 15380 mg/l         | 7 d  | Pimephales promelas             | Environ. Toxicology and Chemistry, Vol. | other: EPA 600/4-89/001. U.S. Environmen |        |
|            | Algae toxicity                     | NOEC > 100 mg/l         | 8 d  | Scenedesmus quadricauda         | REACH Registration Dossier              | OECD Guideline 201                       |        |
|            | Crustacea toxicity                 | NOEC 7500 - 15000 mg/l  | 21 d | Daphnia magna                   | REACH Registration Dossier              | other: ASTM                              |        |
| 93918-10-6 | Potassium 3,5,5-trimethylhexanoate |                         |      |                                 |   |  |        |
|            | Acute algae toxicity               | ErC50 189,87 mg/l       | 72 h | Raphidocelis subcapitata        | REACH Registration Dossier              | OECD Guideline 201                       |        |

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

##### Partition coefficient n-octanol/water

| CAS No     | Chemical name                      | Log Pow |
|------------|------------------------------------|---------|
| 107-21-1   | Ethane-1,2-diol                    | -1,36   |
| 93918-10-6 | Potassium 3,5,5-trimethylhexanoate | -0,47   |

#### 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 UK REACH.

The product has not been tested.

#### 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. Do not allow to enter into soil/subsoil. 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

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2004/42/EC (VOC): 33,445 % (349,166 g/l)  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III):

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Water hazard class (D): 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): 2,7,8,9,10,11,12,13.

#### 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  
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>

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Acute Tox. 4; H302  | Calculation method       |
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |
| STOT RE 2; H373     | Calculation method       |

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

|      |  |
|------|--|
| H302 | Harmful if swallowed.  |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.  |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.                                     |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*