

according to Regulation (EC) No 1907/2006

## **CONLOC UV 690**

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Product code: 7406906 0

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

## 1.1. Product identifier

CONLOC UV 690

Product group:

Adhesives

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

## Use of the substance/mixture

UV curing adhesive

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

| Company name:                              | EGO Dichtstoffwerke GmbH & Co. Beti                                     | riebs KG                       |
|--|---|--------------------------------|
| Street:                                    | Kaltenbrunn 27  |                                |
| Place:                                     | D-82467 Garmisch-Partenkirchen  |                                |
| Telephone:<br>e-mail:                      | +49 (0)8821 956 90<br>info@ego.de                                       | Telefax: +49 (0)8821 956 990   |
| Contact person:<br>e-mail:<br>Internet:    | Laboratory<br>EGO-Labor@ego.de<br>www.ego.de                            | Telephone: +49 (0)8821 956 960 |
| <u>1.4. Emergency telephone</u><br>number: | +49 55119240 (24h/7d)<br>GIZ-Nord, Göttingen<br>Member of EPECs network |                                |

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### Regulation (EC) No 1272/2008

Hazard components for labelling

Isobornyl acrylate

2-hydroxyethyl methacrylate 2-(2-ethoxyethoxy)ethyl acrylate

acrylic acid; prop-2-enoic acid

Signal word:

**Pictograms:** 



Warning

#### Hazard statements

| H315 | Causes skin irritation.              |
|------|--------------------------------------|
| H319 | Causes serious eye irritation.       |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation.    |

#### **Precautionary statements**

Do not breathe mist/vapours/spray.

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|---------------------------|--|--------------|
| P264                      | Wash hands thoroughly after handling.  |              |
| P271                      | Use only outdoors or in a well-ventilated area.  |              |
| P280                      | Wear protective gloves / protective clothing / eye protection.   |              |
| P305+P351+P338            | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |              |
| P302+P350                 | IF ON SKIN: Gently wash with plenty of soap and water.   |              |
| P403+P233                 | Store in a well-ventilated place. Keep container tightly closed.   |              |
| P501                      | Dispose of contents/container in accordance with local regulation.   |              |
| Additional advice on lat  | pelling  |              |

Testing regarding acute or chronic aquatic effects shows that no eco-labelling is required.

### 2.3. Other hazards

Do not expose skin and above all eyes to direct or reflected UV light during curing.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## Hazardous components

| CAS No    | Chemical name  |   |                          |        |  |
|-----------|--|---|--------------------------|--------|--|
|           | EC No  | Index No                                  | REACH No                 |        |  |
|           | Classification (Regulation (EC) No                                 | 1272/2008)                                |                          |        |  |
| 5888-33-5 | Isobornyl acrylate   |   |                          | < 40 % |  |
|           | 227-561-6  |   |                          |        |  |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens<br>H319 H317 H335 H400 H410 | . 1B, STOT SE 3, Aquatic Acute 1, A       | quatic Chronic 1; H315   |        |  |
| 868-77-9  | 2-hydroxyethyl methacrylate  |   |                          | < 25 % |  |
|           | 212-782-2  | 607-124-00-X                              |                          |        |  |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens                             | . 1; H315 H319 H317                       |                          |        |  |
| 7328-17-8 | 2-(2-ethoxyethoxy)ethylacrylate                                    |   | <5 %                     |        |  |
|           | 230-811-7  |   |                          |        |  |
|           | Acute Tox. 3, Acute Tox. 4, Skin I<br>H315 H319 H317 H411          | rrit. 2, Eye Irrit. 2, Skin Sens. 1, Aqua | tic Chronic 2; H311 H302 |        |  |
| 79-10-7   | acrylic acid; prop-2-enoic acid                                    |   |                          | < 3 %  |  |
|           | 201-177-9  | 607-061-00-8                              |                          |        |  |
|           | Flam. Liq. 3, Acute Tox. 4, Acute<br>H332 H312 H302 H314 H400      | quatic Acute 1; H226                      |                          |        |  |
| 2530-85-0 | 3-Trimethoxysilylpropylmethacryla                                  |   | < 3 %                    |        |  |
|           | 219-785-8  |   |                          |        |  |
|           | Skin Irrit. 2, Eye Irrit. 2A, STOT SI                              | E 3; H315 H319 H335                       |                          |        |  |

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



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

| CAS No    | EC No          | Chemical name   | Quantity |
|-----------|----------------|---|----------|
|           | Specific Conc. | Limits, M-factors and ATE   |          |
| 5888-33-5 | 227-561-6      | Isobornyl acrylate  | < 40 %   |
|           | dermal: LD50   | = > 3000 mg/kg; oral: LD50 = 4350 mg/kg   |          |
| 868-77-9  | 212-782-2      | 2-hydroxyethyl methacrylate   | < 25 %   |
|           | oral: LD50 = 5 | 5050 mg/kg  |          |
| 7328-17-8 | 230-811-7      | 2-(2-ethoxyethoxy)ethylacrylate   | <5 %     |
|           | dermal: ATE :  | = 300 mg/kg; oral: ATE = 500 mg/kg  |          |
| 79-10-7   | 201-177-9      | acrylic acid; prop-2-enoic acid   | < 3 %    |
|           |                | 50 = > 10 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal:<br>0 mg/kg; oral: LD50 = > 300 mg/kg_STOT SE 3; H335: >= 1 - 100 |          |
| 2530-85-0 | 219-785-8      | 3-Trimethoxysilylpropylmethacrylate   | < 3 %    |
|           | oral: LD50 = > | >5000 mg/kg   |          |

### **Further Information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

If you feel unwell, seek medical advice (show the label where possible).

## After inhalation

Move to fresh air in case of accidental inhalation of vapours. Consult physician if problems persist. If unconscious place in recovery position and seek medical advice.

#### After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

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

## Itching, rashes.

#### 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

Dry powder, Carbon dioxide (CO2).

Extinguishing materials should be selected according to the surrounding area.

### Unsuitable extinguishing media

High volume water jet

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

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Wear personal protection equipment.



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### **SECTION 6: Accidental release measures**

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

#### General advice

Ensure adequate ventilation. Do not breath vapour. Wear personal protection equipment.

#### For non-emergency personnel

Remove from all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

#### For emergency responders

Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages cannot be contained.

### 6.3. Methods and material for containment and cleaning up

For containment

Cover the sewers.

## For cleaning up

Small amounts: Wipe up with absorbent material (e.g. cloth, fleece).

Substantial quantities: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the assimilated material according to the section on waste disposal.

### Other information

Provide adequate ventilation.

## 6.4. Reference to other sections

See also section 7, 8, 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. Keep away from direct sunlight.

### Advice on protection against fire and explosion

No special precautions required.

#### Advice on general occupational hygiene

When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Wash hands when done working with material; at breaks, lunch, shift changes, etc. Take off immediately all contaminated clothing Do not breath vapour.

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

#### Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Protect against light. Never return unused material to storage receptacle.

## Hints on joint storage

No special precautions required.

### 7.3. Specific end use(s)

Adhesives

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

## 8.1. Control parameters



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### Occupational exposure limit values

| CAS No  | Name of agent                   | ppm | mg/m³ | fib/cm³ | Category     | Origin |
|---------|---------------------------------|-----|-------|---------|--------------|--------|
| 79-10-7 | Acrylic acid; Prop-2-enoic acid | 10  | 29    |         | TWA (8 h)    |        |
|         |                                 | 20  | 59    |         | STEL (1 min) |        |

### Additional advice on limit values

Derivation of DNEL(s): This information is not available.

Derivation of the PNEC: This information is not available.

### 8.2. Exposure controls

## Appropriate engineering controls

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Do not expose skin and above all eyes to direct or reflected UV light during curing.

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

### Eye/face protection

Safety glasses with side-shields.

#### Hand protection

Protective gloves: Glove material Nitrile rubber

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

### Skin protection

Long sleeved clothing

## **Respiratory protection**

Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. respirator with A filter

### Thermal hazards

Do not heat the product. Under fire conditions: Flame-resistant clothing Low temperature resistant gloves: not required

#### Environmental exposure controls

Do not allow material to contaminate ground water system.

## **SECTION 9: Physical and chemical properties**

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

| Physical state:                            | liquid                            |                   |
|--|-----------------------------------|-------------------|
| Colour:                                    | clear, colourless to light yellow |                   |
| Odour:                                     | characteristic                    |                   |
| Odour threshold:                           | not determined                    |                   |
| Melting point/freezing point:              |                                   | no data available |
| Boiling point or initial boiling point and |                                   | no data available |
| boiling range:                             |                                   |                   |
| Flammability:                              |                                   | no data available |
| Lower explosion limits:                    |                                   | no data available |
| Upper explosion limits:                    |                                   | no data available |
| Flash point:                               |                                   | 101 °C            |
| Auto-ignition temperature:                 |                                   | no data available |
|  |                                   |                   |



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|--|--|--------------|
| Decomposition temperature:   | no data available                        |              |
| pH-Value:  | no data available                        |              |
| Water solubility:  | insoluble                                |              |
| Vapour pressure:   | no data available                        |              |
| Density:   | no data available                        |              |
| Particle characteristics:  | not applicable                           |              |
| 9.2. Other information   |  |              |
| Information with regard to physical has<br>Explosive properties<br>The product is: not Explosive.<br>Self-ignition temperature<br>Solid: | zard classes<br>no data available        |              |
| Other safety characteristics<br>Viscosity / dynamic:<br>(at 23 °C)   | approx. 2500 mPa⋅s                       |              |
| Further Information  |  |              |
| The product is: not auto-flammable   |  |              |

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Heat, flames and sparks. Exposure to light.

### 10.5. Incompatible materials

amines Strong oxidizing agents Strong acids and strong bases

#### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## **SECTION 11: Toxicological information**

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

### Acute toxicity

No data is available on the product itself.



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| CAS No    | Chemical name             |               |           |         |        |        |
|-----------|---------------------------|---------------|-----------|---------|--------|--------|
|           | Exposure route            | Dose          |           | Species | Source | Method |
| 5888-33-5 | Isobornyl acrylate        |               |           |         |        |        |
|           | oral                      | LD50<br>mg/kg | 4350      | rat     |        |        |
|           | dermal                    | LD50<br>mg/kg | > 3000    | rabbit  |        |        |
| 868-77-9  | 2-hydroxyethyl methacry   | late          |           | -       |        |        |
|           | oral                      | LD50<br>mg/kg | 5050      | Rat     |        |        |
| 7328-17-8 | 2-(2-ethoxyethoxy)ethyla  | acrylate      |           |         |        |        |
|           | oral                      | ATE<br>mg/kg  | 500       |         |        |        |
|           | dermal                    | ATE<br>mg/kg  | 300       |         |        |        |
| 79-10-7   | acrylic acid; prop-2-enoi | c acid        |           |         |        |        |
|           | oral                      | LD50<br>mg/kg | > 300     | Rat     |        |        |
|           | dermal                    | LD50<br>mg/kg | > 1000    | Rabbit  |        |        |
|           | inhalation (4 h) vapour   | LC50          | > 10 mg/l | Rat     |        |        |
|           | inhalation dust/mist      | ATE           | 1,5 mg/l  |         |        |        |
| 2530-85-0 | 3-Trimethoxysilylpropylm  | nethacrylate  |           |         |        |        |
|           | oral                      | LD50<br>mg/kg | >5000     | rat     |        |        |

#### Irritation and corrosivity

Irritating to skin.

Causes serious eye irritation.

#### Sensitising effects

May cause sensitisation by skin contact.

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

This information is not available.

### STOT-single exposure

Inhalation of vapours in high concentration may cause irritation of respiratory system.

#### STOT-repeated exposure

This information is not available.

### Aspiration hazard

Inhalation may cause respiratory irritation.

### Information on likely routes of exposure

Skin contact, Inhalation

## **Practical experience**

This information is not available.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Discharge into the environment must be avoided.

Testing regarding acute or chronic aquatic effects shows that no eco-labelling is required.



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| CAS No    | Chemical name             |              |          |           |   |        |        |
|-----------|---------------------------|--------------|----------|-----------|---|--------|--------|
|           | Aquatic toxicity          | Dose         |          | [h]   [d] | Species   | Source | Method |
| 5888-33-5 | Isobornyl acrylate        |              |          |           |   |        |        |
|           | Acute fish toxicity       | LC50         | 1,8 mg/l | 96 h      | Danio rerio (zebra<br>fish)                         |        |        |
|           | Acute algae toxicity      | ErC50        | 2,7 mg/l | 96 h      | Pseudokirchneriella<br>subcapitata (green<br>algae) |        |        |
|           | Acute crustacea toxicity  | EC50         | 1,1 mg/l | 48 h      | Daphnia magna<br>(Water flea)                       |        |        |
| 868-77-9  | 2-hydroxyethyl methacryla | ate          |          |           |   |        |        |
|           | Acute fish toxicity       | LC50         | 227 mg/l | 96 h      | Pimephales promelas                                 |        |        |
| 2530-85-0 | 3-Trimethoxysilylpropylme | ethacrylate  |          |           |   |        |        |
|           | Acute fish toxicity       | LC50<br>mg/l | 1024     | 96 h      | LC50/96h/Brachydani<br>o rerio                      |        |        |
|           | Acute algae toxicity      | ErC50        | 536 mg/l | 72 h      | Scenedesmus<br>quadricauda (Green<br>algae)         |        |        |
|           | Acute crustacea toxicity  | EC50<br>mg/l | >876     | 48 h      | Daphnia magna<br>(Water flea)                       |        |        |

## 12.2. Persistence and degradability

no data available

## 12.3. Bioaccumulative potential

## Partition coefficient n-octanol/water

| CAS No   | Chemical name                   | Log Pow |
|----------|---------------------------------|---------|
| 868-77-9 | 2-hydroxyethyl methacrylate     | 0,47    |
| 79-10-7  | acrylic acid; prop-2-enoic acid | 0,35    |

#### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

no

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### **Disposal recommendations**

Should not be released into the environment. Dispose of in accordance with local / national regulations According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

### Contaminated packaging

Dispose of waste according to applicable local, state, and federal regulations.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.



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| 14.2. UN proper shipping name:             | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.3. Transport hazard class(es):          | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.4. Packing group:                       | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| Marine transport (IMDG)                    |   |              |  |  |  |
| 14.1. UN number or ID number:              | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.2. UN proper shipping name:             | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.3. Transport hazard class(es):          | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.4. Packing group:                       | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| Marine pollutant:                          | no  |              |  |  |  |
| Air transport (ICAO-TI/IATA-DGR)           |   |              |  |  |  |
| <u>14.1. UN number or ID number:</u>       | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.2. UN proper shipping name:             | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.3. Transport hazard class(es):          | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.4. Packing group:                       | No dangerous good in sense of this transport regulation.    |              |  |  |  |
| 14.5. Environmental hazards                |   |              |  |  |  |
| ENVIRONMENTALLY HAZARDOUS:                 | No  |              |  |  |  |
| 14.6. Special precautions for user         |   |              |  |  |  |
| No dangerous good in sense of this         | transport regulation.                                       |              |  |  |  |
| 14.7. Maritime transport in bulk according | to IMO instruments  |              |  |  |  |
| No dangerous good in sense of this         | transport regulation.                                       |              |  |  |  |
| SECTION 15: Regulatory information         |   |              |  |  |  |
| 15.1. Safety, health and environmental reg | gulations/legislation specific for the substance or mixture |              |  |  |  |
| EU regulatory information                  |   |              |  |  |  |
| Restrictions on use (REACH, annex XV       | 1):   |              |  |  |  |
| Entry 3, Entry 40, Entry 75                | ·/·   |              |  |  |  |
| National regulatory information            |   |              |  |  |  |
| Water hazard class (D):                    | 1 - slightly hazardous to water                             |              |  |  |  |
| 15.2. Chemical safety assessment           | 5   |              |  |  |  |
|  | bstances in this mixture were not carried out.              |              |  |  |  |
| SECTION 16: Other information              |   |              |  |  |  |
| SECTION 16. Other information              |   |              |  |  |  |
| Changes                                    |   |              |  |  |  |
| This data sheet contains changes fro       | om the previous version in section(s): 5,6,7,8,9,11,12,16.  |              |  |  |  |
| Abbreviations and acronyms                 |   |              |  |  |  |
| CLP: Classification, labelling and Pa      |   |              |  |  |  |
| REACH: Registration, Evaluation an         |   |              |  |  |  |
|  | of Classification, Labelling and Packaging of Chemicals     |              |  |  |  |
| UN: United Nations                         |   |              |  |  |  |

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%





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ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association 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

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

| H226 | Flammable liquid and vapour.                          |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H311 | Toxic in contact with skin.                           |
| H312 | Harmful 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.                        |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

## **Further Information**

These data describe only the safety requirements for the product(s) and are based on our present knowledge. However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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