



according to UK REACH Regulation

## Silver Star Silvering bath

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

### 1.1. Product identifier

Silver Star Silvering bath

UFI: P0PX-3J30-C00X-YA7D

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

#### Use of the substance/mixture

Currentless silver-plating

#### Uses advised against

No further relevant information available.

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

Company name: MARAWE GmbH & Co. KG

Street: Donaustaufer Str. 378 - Gebäude 64

Place: D-93055 Regensburg
Telephone: +49 941 / 29020439

Telephone: +49 941 / 29020439 Telefax: +49 941 / 29020593

e-mail: info@marawe.de

Contact person: Product safety department

Internet: www.marawe.de **1.4. Emergency telephone** +49 941 / 29020439,

<u>number:</u> Mon-Thu 9:00 - 16:00; Fri 9:00 - 14:00

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Met. Corr. 1; H290

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

### **GB CLP Regulation**

Signal word: Warning

**Hazard statements** 

H290 May be corrosive to metals.

### **Precautionary statements**

P102 Keep out of reach of children.
P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

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

#### 3.2. Mixtures



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#### **Hazardous components**

| CAS No    | Chemical name   |   |                     |       |  |
|-----------|---|---|---------------------|-------|--|
|           | EC No   | Index No  | REACH No            |       |  |
|           | Classification (GB CLP Regulation                       | )   |                     |       |  |
| 62-56-6   | thiourea; thiocarbamide                                 |   |                     | < 1 % |  |
|           | 200-543-5   |   |                     |       |  |
|           | Carc. 2, Repr. 2, Acute Tox. 4, Aqu                     | c. 2, Repr. 2, Acute Tox. 4, Aquatic Chronic 2; H351 H361fd H302 H411 |                     |       |  |
| 7664-93-9 | sulphuric acid  |   |                     | < 1 % |  |
|           | 231-639-5   | 016-020-00-8  | 01-2119458838-20    |       |  |
|           | Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318 |   |                     |       |  |
| 7761-88-8 | Silver nitrate  |   |                     | < 1 % |  |
|           | 231-853-9   |   | 01-2119513705-43    |       |  |
|           | Ox. Sol. 2, Met. Corr. 1, Skin Corr. H400 H410          | 1B, Aquatic Acute 1, Aquatic Chroni                                   | c 1; H272 H290 H314 |       |  |

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. L                     | imits, M-factors and ATE   |          |
| 62-56-6   | 200-543-5                            | thiourea; thiocarbamide  | < 1 %    |
|           | dermal: LD50 =                       | 2800 mg/kg; oral: LD50 = 1750 mg/kg  |          |
| 7664-93-9 | 231-639-5                            | sulphuric acid   | < 1 %    |
|           | oral: LD50 = 21<br>Eye Irrit. 2; H31 | 40 mg/kg Skin Corr. 1A; H314: >= 15 - 100 Skin Irrit. 2; H315: >= 5 - < 15<br>9: >= 5 - < 15 |          |
| 7761-88-8 | 231-853-9                            | Silver nitrate   | < 1 %    |
|           | oral: LD50 = >2                      | 000 mg/kg  |          |

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

## 4.1. Description of first aid measures

# After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

## After ingestion

Rinse mouth immediately and drink 1 glass of of water. Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Depending on the type and duration of contact, irritation of the skin, eyes and mucous membranes is possible.

## 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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.





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### Unsuitable extinguishing media

High power water jet.

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

May cause strong formation of hydrogen by contact with amphoteric metals (e.g. aluminia, lead, zinc) - danger of explosion.

Do not breathe explosive- and combustion gases. Exposure to decomposition products can be harmful to health. Upon heating and in case of fire, the following may be released: Carbon monoxide (CO), Carbon dioxide (CO2), nitrogen oxides (NOx), metal oxide vapours.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. 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

#### General advice

Provide adequate ventilation. 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. Inform the respective authorities if the product enters open water or sewage system.

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

### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in a suitable, labelled and closable waste container. Treat the recovered material as prescribed in the section on waste disposal.

#### 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

Avoid formation of aerosols.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

## Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

# Requirements for storage rooms and vessels

Keep container tightly closed. Unsuitable container/equipment material: Metal.

### Hints on joint storage

No special measures are necessary.

## 7.3. Specific end use(s)

Currentless silver-plating



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

## 8.1. Control parameters

## **Exposure limits (EH40)**

| CAS No    | Substance             | ppm | mg/m³ | fibres/ml | Category  | Origin |
|-----------|-----------------------|-----|-------|-----------|-----------|--------|
| 7664-93-9 | Sulphuric acid (mist) | -   | 0.05  |           | TWA (8 h) | WEL    |

### **DNEL/DMEL values**

| CAS No                   | Substance               |                |          |                  |  |  |
|--------------------------|-------------------------|----------------|----------|------------------|--|--|
| DNEL type                |                         | Exposure route | Effect   | Value            |  |  |
| 62-56-6                  | thiourea; thiocarbamide |                |          |                  |  |  |
| Consumer DN              | EL, long-term           | oral           | systemic | 0,1 mg/kg bw/day |  |  |
| Worker DNEL,             | long-term               | dermal         | systemic | 3,4 mg/kg bw/day |  |  |
| Consumer DNEL, long-term |                         | dermal         | systemic | 1,7 mg/kg bw/day |  |  |
| Worker DNEL, long-term   |                         | inhalation     | systemic | 1 mg/m³          |  |  |
| Consumer DNEL, long-term |                         | inhalation     | systemic | 0,2 mg/m³        |  |  |
| 7664-93-9                | sulphuric acid          |                |          |                  |  |  |
| Worker DNEL, acute       |                         | inhalation     | local    | 0,1 mg/m³        |  |  |
| Worker DNEL, long-term   |                         | inhalation     | local    | 0,05 mg/m³       |  |  |

### **PNEC values**

| CAS No  | Substance                          |               |  |  |  |
|---|------------------------------------|---------------|--|--|--|
| Environmental   | Environmental compartment Value    |               |  |  |  |
| 62-56-6   | thiourea; thiocarbamide            |               |  |  |  |
| Freshwater  |                                    | 0,01 mg/l     |  |  |  |
| Marine water  |                                    | 0,001 mg/l    |  |  |  |
| Freshwater sed  | liment                             | 0,0725 mg/kg  |  |  |  |
| Marine sedime   | nt                                 | 0,00725 mg/kg |  |  |  |
| Micro-organism  | s in sewage treatment plants (STP) | 0,38 mg/l     |  |  |  |
| Soil  |                                    | 2,725 mg/kg   |  |  |  |
| 7664-93-9   | sulphuric acid                     |               |  |  |  |
| Freshwater  |                                    | 0,0025 mg/l   |  |  |  |
| Marine water  |                                    | 0,25 mg/l     |  |  |  |
| Freshwater sediment   |                                    | 0,002 mg/kg   |  |  |  |
| Marine sediment   |                                    | 0,25 mg/l     |  |  |  |
| Micro-organism  | s in sewage treatment plants (STP) | 8,8 mg/l      |  |  |  |
| 7761-88-8   | Silver nitrate                     |               |  |  |  |
| Freshwater  |                                    | 0,00004 mg/l  |  |  |  |
| Marine water  |                                    | 0,00086 mg/l  |  |  |  |
| Freshwater sediment 438                                     |                                    | 438 mg/kg     |  |  |  |
| Marine sediment 438 m                                       |                                    | 438 mg/kg     |  |  |  |
| Micro-organisms in sewage treatment plants (STP) 0,025 mg/l |                                    | 0,025 mg/l    |  |  |  |
| Soil  |                                    | 0,794 mg/kg   |  |  |  |

# 8.2. Exposure controls



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### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

#### Eye/face protection

Tight sealing protective goggles (DIN 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. 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

Use of protective clothing.

#### Respiratory protection

Guarantee good ventilation / air extraction for storage- and workspace.

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

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

Physical state: Liquid
Colour: colourless
Odour: odourless

# Changes in the physical state

Melting point/freezing point: not determined

Boiling point or initial boiling point and > 100 °C

boiling range:

Flash point: not determined

**Flammability** 

Solid/liquid: not applicable
Gas: 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 not applicable not applicable Pecomposition temperature: not determined pH-Value (at 20 °C): 1,0 - 1,5 Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative vapour density:

not determined

1,0 - 1,1 g/cm³

not determined

#### 9.2. Other information



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# Information with regard to physical hazard classes

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Solid content: not determined

Evaporation rate: not determined

**Further Information** 

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Base, Peroxides, Oxidizing agent.

May cause strong formation of hydrogen by contact with amphoteric metals (e.g. aluminia, lead, zinc) - danger of explosion.

#### 10.4. Conditions to avoid

Protect from direct sunlight.

### 10.5. Incompatible materials

Metal. Keep away from: Base, Oxidizing agent, Peroxides.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **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.

| CAS No    | Chemical name           |               |       |         |              |          |
|-----------|-------------------------|---------------|-------|---------|--------------|----------|
|           | Exposure route          | Dose          |       | Species | Source       | Method   |
| 62-56-6   | thiourea; thiocarbamide |               |       |         |              |          |
|           | oral                    | LD50<br>mg/kg | 1750  | Rat     | Manufacturer |          |
|           | dermal                  | LD50<br>mg/kg | 2800  | Rabbit  | Manufacturer |          |
| 7664-93-9 | sulphuric acid          |               |       |         |              |          |
|           | oral                    | LD50<br>mg/kg | 2140  | Rat     | GESTIS       | OECD 401 |
| 7761-88-8 | Silver nitrate          |               |       |         |              |          |
|           | oral                    | LD50<br>mg/kg | >2000 | Rat     | Manufacturer |          |

### Irritation and corrosivity

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



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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.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No    | Chemical name            |                |          |           |  |              |          |
|-----------|--------------------------|----------------|----------|-----------|--|--------------|----------|
|           | Aquatic toxicity         | Dose           |          | [h]   [d] | Species                                  | Source       | Method   |
| 62-56-6   | thiourea; thiocarbamide  |                |          |           |  |              |          |
|           | Acute fish toxicity      | LC50<br>mg/l   | >600     | 96 h      | Pimephales promelas (fathead minnow)     | Manufacturer |          |
|           | Acute algae toxicity     | ErC50          | 6,8 mg/l | 96 h      | Scenedesmus subspicatus                  | Manufacturer |          |
|           | Acute bacteria toxicity  | (EC50<br>mg/l) | 3100     |           | Photobacterium phoshoreum                | Manufacturer |          |
| 7664-93-9 | sulphuric acid           |                |          |           |  |              |          |
|           | Acute fish toxicity      | LC50<br>mg/l   | 16 - 28  | 96 h      | Lepomis macrochirus (Bluegill)           |              |          |
|           | Acute algae toxicity     | ErC50<br>mg/l  | > 100    | 72 h      | Desmodesmus subspicatus                  |              | OECD 201 |
|           | Acute crustacea toxicity | EC50<br>mg/l   | > 100    |           | Daphnia magna (Big<br>water flea)        |              | OECD 202 |
| 7761-88-8 | Silver nitrate           |                |          |           |  |              |          |
|           | Fish toxicity            | NOEC<br>mg/l   | 0,13     | 28 d      | Menidia beryllina<br>(Inland silverside) | Manufacturer |          |
|           | Algae toxicity           | NOEC<br>mg/l   | 0,0012   | 14 d      | Champia parvula                          | Manufacturer |          |
|           | Crustacea toxicity       | NOEC<br>mg/l   | 0,001    | 7 d       | Ceriodaphnia<br>reticulata               | Manufacturer |          |

# 12.2. Persistence and degradability

The product has not been tested.

| CAS No  | Chemical name           |           |   |        |
|---------|-------------------------|-----------|---|--------|
|         | Method                  | Value     | d | Source |
|         | Evaluation              |           | - | -      |
| 62-56-6 | thiourea; thiocarbamide |           |   |        |
|         | BSB5                    | 0,013 g/g | 5 |        |
|         | Poorly biodegradable.   |           |   |        |

## 12.3. Bioaccumulative potential

The product has not been tested.

### BCF

| CAS No    | Chemical name  | BCF | Species                          | Source |
|-----------|----------------|-----|----------------------------------|--------|
| 7761-88-8 | Silver nitrate | -   | Cyprinus carpio (Common<br>Carp) |        |



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### 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.

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.

### 12.7. Other adverse effects

No information available.

#### **Further information**

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

### **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.

### List of Wastes Code - residues/unused products

WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); acids not otherwise specified; hazardous waste

### List of Wastes Code - used product

110106

WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); acids not otherwise specified: hazardous waste

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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

# Land transport (ADR/RID)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS

SULFURIC ACID, CITRIC ACID)

14.3. Transport hazard class(es):

14.4. Packing group: Ш Hazard label: 8



8

Classification code: C1 **Special Provisions:** 274 Limited quantity: 5 I Excepted quantity: E1 Transport category: 3



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Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS

SULFURIC ACID, CITRIC ACID)

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 III

 Hazard label:
 8



Classification code: C1
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS

SULFURIC ACID, CITRIC ACID)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions: 223, 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-B
Segregation group: 1 - acids

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS

SULFURIC ACID, CITRIC ACID)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.6. Special precautions for user

No information available.





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

not applicable

### **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 75

Information according to 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(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): 2 - obviously hazardous to water

### 15.2. Chemical safety assessment

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

### **SECTION 16: Other information**

### 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 MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

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

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



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intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

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

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data    |

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

| H272 | May intensify fire; oxidiser. |
|------|-------------------------------|
| H290 | May be corrosive to metals.   |
| H302 | Harmful if swallowed.         |
|      |                               |

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H351 Suspected of causing cancer.

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

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**

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.)