

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071387737

N/A

according to Regulation (EC) No 1907/2006

### Primeprint Cast

Revision date: 17.12.2020

Product code: 983

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

### 1.1. Product identifier

Primeprint Cast

UFI: 5MS0-M1JD-600G-QXEV

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

#### Use of the substance/mixture

Ligth-curing resin for the generative fabrication of cast objects using precision casting technology

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

Company name: DETAX GmbH & Co. KG  
 Street: Carl-Zeiss-Strasse  
 Place: D-76275 Ettlingen  
 Telephone: +49 7243/510-0 Telefax: +49 7243/510-100  
 e-mail: post@detax.de  
 Internet: www.detax.de  
 Responsible Department: Emergency number:

+49 7243/510-0

This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.)

### 1.4. Emergency telephone

#### number:

+49 7243/510-0

This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m., Friday 8.00 - 4.00 p.m.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

isopropylidenediphenol peg-2 dimethacrylate

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

2-hydroxyethyl methacrylate

Hydroxy propyl methacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word: Warning

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#### Pictograms:



#### Hazard statements

|      |  |
|------|--|
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H319 | Causes serious eye irritation.                     |
| H335 | May cause respiratory irritation.                  |
| H412 | Harmful to aquatic life with long lasting effects. |

#### Precautionary statements

|           |   |
|-----------|---|
| P261      | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water.  |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.                              |
| P362+P364 | Take off contaminated clothing and wash it before reuse.                                      |
| P501      | Dispose of contents/ container in accordance with local and national regulations.             |

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of acrylic/ methacrylic resins with auxilliary matters.

according to Regulation (EC) No 1907/2006

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#### Hazardous components

| CAS No      | Chemical name   |              |                  | Quantity    |
|-------------|---|--------------|------------------|-------------|
|             | EC No   | Index No     | REACH No         |             |
|             | GHS Classification  |              |                  |             |
| 41637-38-1  | isopropylidenediphenol peg-2 dimethacrylate   |              |                  | 30 - < 60 % |
|             | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A, STOT SE 3; H315 H319 H317 H335                      |              |                  |             |
| 72869-86-4  | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazaheptadecane-1,16-diyl bismethacrylate |              |                  | 10 - < 15 % |
|             | 276-957-5   |              | 01-2120751202-68 |             |
|             | Skin Sens. 1B, Aquatic Chronic 2; H317 H411   |              |                  |             |
| 108-32-7    | propylene carbonate   |              |                  | 1 - < 25 %  |
|             | 203-572-1   | 607-194-00-1 | 01-2119537232-48 |             |
|             | Eye Irrit. 2; H319  |              |                  |             |
| 868-77-9    | 2-hydroxyethyl methacrylate   |              |                  | 1 - < 25 %  |
|             | 212-782-2   | 607-124-00-X |                  |             |
|             | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317                                       |              |                  |             |
| 27813-02-1  | Hydroxy propyl methacrylate   |              |                  | 1 - < 10 %  |
|             | 248-666-3   |              | 01-2119490226-37 |             |
|             | Eye Irrit. 2, Skin Sens. 1; H319 H317   |              |                  |             |
| 6606-59-3   | 1,6-hexanediol dimethacrylate   |              |                  | 1 - < 10 %  |
|             | 229-551-7   |              |                  |             |
|             | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335  |              |                  |             |
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide   |              |                  | 0,1 - < 5 % |
|             | 278-355-8   | 015-203-00-X |                  |             |
|             | Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411                                      |              |                  |             |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide  |              |                  | 0,1 - < 5 % |
|             | 423-340-5   | 015-189-00-5 | 01-2119489401-38 |             |
|             | Skin Sens. 1, Aquatic Chronic 4; H317 H413  |              |                  |             |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

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

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### 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.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

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#### **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**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **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**

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.

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

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

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

##### **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.

##### **Hints on joint storage**

Keep away from spontaneous flammable or combustible substances.

##### **Further information on storage conditions**

Keep only in the original container in a dry and well-ventilated place, away from foodstuffs. Keep away from all kind of ligh. An inert gas blanket should not be applied, because the stability of the product depends on the presence of oxygen (air).

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

according to Regulation (EC) No 1907/2006

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Ligth-curing resin for the generative fabrication of cast objects using precision casting technology  
For use by trained specialist staff.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Appropriate engineering controls

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

#### Protective and hygiene measures

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 or drink.

#### Eye/face protection

Suitable eye protection: goggles.

#### 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.

Suitable are gloves of the following material: Butyl caoutchouc (butyl rubber)

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

|                 |                     |
|-----------------|---------------------|
| Physical state: | liquid:             |
| Colour:         | red                 |
| Odour:          | faintly like esters |

#### Test method

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

#### Changes in the physical state

|                |                |
|----------------|----------------|
| Melting point: | not determined |
|----------------|----------------|

|  |                |
|--|----------------|
| Initial boiling point and boiling range: | not determined |
|--|----------------|

|              |                   |
|--------------|-------------------|
| Flash point: | >100 °C DIN 51755 |
|--------------|-------------------|

#### Flammability

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

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

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
|-------------------------|----------------|

|                         |                |
|-------------------------|----------------|
| Upper explosion limits: | not determined |
|-------------------------|----------------|

#### Auto-ignition temperature

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

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

|                            |          |
|----------------------------|----------|
| Decomposition temperature: | >=190 °C |
|----------------------------|----------|

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#### **Oxidizing properties**

Not oxidizing.

Vapour pressure:  
(at 20 °C)

<1 hPa

Density (at 20 °C):

1,1 g/cm<sup>3</sup> DIN 51757

Water solubility:

insoluble

#### **Solubility in other solvents**

not determined

Partition coefficient:

not determined

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**

Reacts with : strong oxidising agents, strong alkaline or acidic materials., oxidising agents, radicals forming substances or heavy metal ions.

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

Ultra-violet light and daylight initiate polymerisation of the product. Therefore keep only in tightly closed containers away from any sources of light at 15°C - 28°C / 59°F - 82 °F.

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

No information available.

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

No known hazardous decomposition products.

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

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

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

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| CAS No      | Chemical name  |                    |         |          |        |
|-------------|--|--------------------|---------|----------|--------|
|             | Exposure route   | Dose               | Species | Source   | Method |
| 72869-86-4  | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate |                    |         |          |        |
|             | oral   | LD50 >5000 mg/kg   | Rat     | OECD 401 |        |
|             | dermal   | LD50 >2000 mg/kg   | Rat     | OECD 402 |        |
| 108-32-7    | propylene carbonate  |                    |         |          |        |
|             | oral   | LD50 34600 mg/kg   | Rat     | GESTIS   |        |
|             | dermal   | LD50 > 23800 mg/kg | Rabbit  | GESTIS   |        |
| 868-77-9    | 2-hydroxyethyl methacrylate  |                    |         |          |        |
|             | oral   | LD50 5050 mg/kg    | Rat     |          |        |
|             | dermal   | LD50 >3000 mg/kg   | Rabbit  |          |        |
| 27813-02-1  | Hydroxy propyl methacrylate  |                    |         |          |        |
|             | oral   | LD50 >2000 mg/kg   | Rat     | OECD 401 |        |
|             | dermal   | LD50 >5000 mg/kg   | Rabbit  |          |        |
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  |                    |         |          |        |
|             | oral   | LD50 >5000 mg/kg   | Rat     |          |        |
|             | dermal   | LD50 >2000 mg/kg   | Rat     |          |        |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide   |                    |         |          |        |
|             | oral   | LD50 >2000 mg/kg   | Rat     | OECD 401 |        |
|             | dermal   | LD50 >2000 mg/kg   | Rat     | OECD 402 |        |

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (isopropylidenediphenol peg-2 dimethacrylate; 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; 2-hydroxyethyl methacrylate; Hydroxy propyl methacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide)

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

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

#### STOT-single exposure

May cause respiratory irritation. (isopropylidenediphenol peg-2 dimethacrylate)

#### 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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].



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## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No      | Chemical name  |               |           |         |                                 |          |
|-------------|--|---------------|-----------|---------|---------------------------------|----------|
|             | Aquatic toxicity   | Dose          | [h]   [d] | Species | Source                          | Method   |
| 72869-86-4  | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate |               |           |         |                                 |          |
|             | Acute crustacea toxicity   | EC50<br>mg/l  | >1,2      | 48 h    | Daphnia magna (Big water flea)  | OECD 202 |
| 108-32-7    | propylene carbonate  |               |           |         |                                 |          |
|             | Acute fish toxicity  | LC50<br>mg/l  | 5300      | 96 h    | Leuciscus idus (golden orfe)    | IUCLID   |
|             | Acute crustacea toxicity   | EC50<br>mg/l  | >1000     | 48 h    | Daphnia magna (Big water flea)  | IUCLID   |
| 868-77-9    | 2-hydroxyethyl methacrylate  |               |           |         |                                 |          |
|             | Acute fish toxicity  | LC50          | 227 mg/l  | 96 h    | Pimephales promelas             |          |
| 27813-02-1  | Hydroxy propyl methacrylate  |               |           |         |                                 |          |
|             | Acute fish toxicity  | LC50          | 493 mg/l  | 96 h    | Leuciscus idus (golden orfe)    |          |
|             | Acute algae toxicity   | ErC50<br>mg/l | >97,2     | 72 h    | Pseudokirchneriella subcapitata | OECD 201 |
|             | Acute crustacea toxicity   | EC50          | 380 mg/l  | 48 h    | Daphnia magna (Big water flea)  | OECD 202 |
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  |               |           |         |                                 |          |
|             | Acute algae toxicity   | ErC50<br>mg/l | >2,01     | 72 h    | Scenedesmus subspicatus         |          |
|             | Acute crustacea toxicity   | EC50<br>mg/l  | 3,53      | 48 h    | Daphnia magna (Big water flea)  |          |
|             | Acute bacteria toxicity  | (>1000 mg/l)  |           | 3 h     | Activated sludge                |          |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide   |               |           |         |                                 |          |
|             | Acute fish toxicity  | LC50<br>mg/l  | >0,09     | 96 h    | Brachydanio rerio (zebra-fish)  | OECD 203 |
|             | Acute algae toxicity   | ErC50<br>mg/l | >0,26     | 72 h    | Desmodesmus subspicatus.        | OECD 201 |
|             | Acute crustacea toxicity   | EC50<br>mg/l  | >1,175    | 48 h    | Daphnia magna (Big water flea)  | OECD 202 |
|             | Crustacea toxicity   | NOEC<br>mg/l  | >0,008    | 21 d    | Daphnia magna (Big water flea)  | OECD 211 |
|             | Acute bacteria toxicity  | (>100 mg/l)   |           | 3 h     | OECD 209                        |          |

### 12.2. Persistence and degradability

The product has not been tested.

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| CAS No      | Chemical name  |       |    |        |
|-------------|--|-------|----|--------|
|             | Method   | Value | d  | Source |
|             | Evaluation   |       |    |        |
| 868-77-9    | 2-hydroxyethyl methacrylate                            |       |    |        |
|             | 84   | %     | 28 |        |
|             | Leicht biologisch abbaubar                             |       |    |        |
| 27813-02-1  | Hydroxy propyl methacrylate                            |       |    |        |
|             | OECD   | 94%   | 28 |        |
|             | Readily biodegradable (according to OECD criteria).    |       |    |        |
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide        |       |    |        |
|             |  | 0-10% | 28 |        |
|             | Not readily biodegradable (according to OECD criteria) |       |    |        |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide     |       |    |        |
|             | CO2 formation (% of the theoretical value).            | 1%    | 29 |        |
|             | Not readily biodegradable (according to OECD criteria) |       |    |        |

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No      | Chemical name                                      | Log Pow |
|-------------|--|---------|
| 108-32-7    | propylene carbonate                                | -0,41   |
| 868-77-9    | 2-hydroxyethyl methacrylate                        | 0,47    |
| 27813-02-1  | Hydroxy propyl methacrylate                        | 0,97    |
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide    | 3,1     |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | 5,8     |

### BCF

| CAS No      | Chemical name                                      | BCF   | Species                       | Source   |
|-------------|--|-------|-------------------------------|----------|
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide    | 47-55 | Cyprinus carpio (Common Carp) |          |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | <5    | Cyprinus carpio (Common Carp) | OECD 305 |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

Not identified as PBT/ vPvB substances

### 12.6. 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.

#### Contaminated packaging

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

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## SECTION 14: Transport information

### Land transport (ADR/RID)

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

### Inland waterways transport (ADN)

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

### Marine transport (IMDG)

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

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

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

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

#### 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):        | 3 - strongly hazardous to water  |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions.  |

### 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

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CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Irrit. 2; H319      | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| STOT SE 3; H335         | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

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

|       |   |
|-------|---|
| H315  | Causes skin irritation.                                 |
| H317  | May cause an allergic skin reaction.                    |
| H319  | Causes serious eye irritation.                          |
| H335  | May cause respiratory irritation.                       |
| H361f | Suspected of damaging fertility.                        |
| H411  | Toxic to aquatic life with long lasting effects.        |
| H412  | Harmful to aquatic life with long lasting effects.      |
| H413  | May cause long lasting harmful effects to aquatic life. |

#### 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.)*