

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Ceramill Ortho Rigid  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Manufacture of 3D-printed applications for the dental industry  
Use of the substance/mixture : Dentistry

| Title                | Life cycle stage | Use descriptors |
|----------------------|------------------|-----------------|
| Ceramill Ortho Rigid | Professional     | SU20            |

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

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

##### Distributor

Amann Girschbacher AG  
Herrschaftswiesen 1  
P.O. Box 6842  
Koblach - Austria

##### Manufacturer

Vertex Dental  
Centurionbaan 190  
3769 AV Soesterberg - The Netherlands  
T +31 886160400  
[info@vertex-dental.com](mailto:info@vertex-dental.com) - [www.vertex-dental.com](http://www.vertex-dental.com)

#### 1.4. Emergency telephone number

Emergency number : (Only for the purpose of informing medical personnel in cases of accidental intoxications. The emergency phone number is 24 hours/day available.)

| Country        | Official advisory body   | Address                           | Emergency number | Comment |
|----------------|--|-----------------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road<br>B18 7QH Birmingham | 0344 892 0111    |         |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazardous ingredients : 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP) : P280 - Wear protective gloves.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P273 - Avoid release to the environment.  
P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier  | % w/w<br>(% w/w) | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP] |
|--|---|------------------|---|
| Ethoxylated bisphenol A dimethacrylate   | (CAS-No.) 41637-38-1<br>(EC-No.) 609-946-4  | >= 75            | Aquatic Chronic 4, H413   |
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | (CAS-No.) 72869-86-4<br>(EC-No.) 276-957-5<br>(REACH-no) 01-2120751202-68                                 | 10 - 20          | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                        |
| phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide   | (CAS-No.) 162881-26-7<br>(EC-No.) 423-340-5<br>(EC Index-No.) 015-189-00-5<br>(REACH-no) 01-2119489401-38 | < 10             | Skin Sens. 1, H317<br>Aquatic Chronic 4, H413                         |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  
Store away from other materials.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions : Keep only in original container. Keep container closed when not in use. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Ethoxylated bisphenol A dimethacrylate (41637-38-1)

##### DNEL/DMEL (Workers)

|  |                        |
|--|------------------------|
| Long-term - systemic effects, dermal     | 2 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 3,52 mg/m <sup>3</sup> |

##### DNEL/DMEL (General population)

|  |                          |
|--|--------------------------|
| Long-term - systemic effects, oral       | 0,5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0,87 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 1 mg/kg bodyweight/day   |

#### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

##### DNEL/DMEL (Workers)

|  |                           |
|--|---------------------------|
| Acute - systemic effects, dermal         | 3,33 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation     | 7,84 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 3,33 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 7,84 mg/m <sup>3</sup>    |

##### DNEL/DMEL (General population)

|  |                          |
|--|--------------------------|
| Acute - systemic effects, dermal         | 1,67 mg/kg bodyweight    |
| Acute - systemic effects, inhalation     | 3,92 mg/m <sup>3</sup>   |
| Acute - systemic effects, oral           | 1,67 mg/kg bodyweight    |
| Long-term - systemic effects, oral       | 1,5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1,93 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 1,5 mg/kg bodyweight/day |

##### PNEC (Water)

|  |                     |
|--|---------------------|
| PNEC aqua (freshwater)                 | 0,0008 - 0,001 mg/l |
| PNEC aqua (marine water)               | 0,0008 - 0,001      |
| PNEC aqua (intermittent, marine water) | 0,0008 - 0,001 mg/l |

##### PNEC (Sediment)

|                              |                |
|------------------------------|----------------|
| PNEC sediment (freshwater)   | 0,712 mg/kg bw |
| PNEC sediment (marine water) | 0,712 mg/kg bw |

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### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

#### PNEC (Soil)

|           |             |
|-----------|-------------|
| PNEC soil | 20 mg/kg bw |
|-----------|-------------|

#### PNEC (STP)

|                             |        |
|-----------------------------|--------|
| PNEC sewage treatment plant | 1 mg/l |
|-----------------------------|--------|

### 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

#### DNEL/DMEL (Workers)

|                                      |                          |
|--------------------------------------|--------------------------|
| Long-term - systemic effects, dermal | 1,3 mg/kg bodyweight/day |
|--------------------------------------|--------------------------|

|  |                       |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 3,3 mg/m <sup>3</sup> |
|--|-----------------------|

#### DNEL/DMEL (General population)

|                                    |                          |
|------------------------------------|--------------------------|
| Long-term - systemic effects, oral | 0,3 mg/kg bodyweight/day |
|------------------------------------|--------------------------|

|  |                       |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 0,6 mg/m <sup>3</sup> |
|--|-----------------------|

|                                      |                          |
|--------------------------------------|--------------------------|
| Long-term - systemic effects, dermal | 0,7 mg/kg bodyweight/day |
|--------------------------------------|--------------------------|

#### PNEC (Water)

|                        |           |
|------------------------|-----------|
| PNEC aqua (freshwater) | 0,01 mg/l |
|------------------------|-----------|

|                          |            |
|--------------------------|------------|
| PNEC aqua (marine water) | 0,001 mg/l |
|--------------------------|------------|

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (intermittent, freshwater) | 0,1 mg/l |
|--------------------------------------|----------|

|  |          |
|--|----------|
| PNEC aqua (intermittent, marine water) | 0,1 mg/l |
|--|----------|

#### PNEC (Sediment)

|                            |               |
|----------------------------|---------------|
| PNEC sediment (freshwater) | 4,56 mg/kg bw |
|----------------------------|---------------|

|                              |               |
|------------------------------|---------------|
| PNEC sediment (marine water) | 0,46 mg/kg bw |
|------------------------------|---------------|

#### PNEC (Soil)

|           |               |
|-----------|---------------|
| PNEC soil | 0,91 mg/kg bw |
|-----------|---------------|

#### PNEC (STP)

|                             |           |
|-----------------------------|-----------|
| PNEC sewage treatment plant | 3,61 mg/l |
|-----------------------------|-----------|

## 8.2. Exposure controls

### Hand protection:

Wear suitable gloves resistant to chemical penetration. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. penetration time (maximum wearing period): > 480 m. Suitable material: Nitrile rubber, Chloroprene rubber, Polyvinylchloride (PVC). Layer thickness : 0,4 mm - 0,5 mm - 0,7 mm

### Eye protection:

Wear eye glasses with side protection according to EN 166.

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

No personal breathing protective equipment is normally required. In case of inadequate ventilation wear respiratory protection. particle filter device (DIN EN 143)

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Use appropriate container to avoid environmental contamination.

### Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes.

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### SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| Physical state                             | : Liquid  |
| Colour                                     | : Blue.   |
| Odour                                      | : Ester.  |
| Odour threshold                            | : No data available   |
| pH   | : No data available   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : No data available   |
| Freezing point                             | : No data available   |
| Boiling point                              | : > 200 °C  |
| Flash point                                | : No data available   |
| Auto-ignition temperature                  | : 375 °C  |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : No data available   |
| Vapour pressure                            | : No data available   |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : 1,1 - 1,2 Relative density, liquid (water=1)              |
| Solubility                                 | : Soluble in organic solvents.<br>Water: insoluble in water |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : No data available   |
| Viscosity, dynamic                         | : 0,9 - 1,1 Pa·s  |
| Explosive properties                       | : No data available   |
| Oxidising properties                       | : No data available   |
| Explosive limits                           | : No data available   |

#### 9.2. Other information

|             |       |
|-------------|-------|
| VOC content | : 0 % |
|-------------|-------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Ethoxylated bisphenol A dimethacrylate (41637-38-1)

|                 |            |
|-----------------|------------|
| LD50 oral rat   | 2000 mg/kg |
| LD50 dermal rat | 2000 mg/kg |

#### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

|                 |            |
|-----------------|------------|
| LD50 oral rat   | 2000 mg/kg |
| LD50 dermal rat | 2000 mg/kg |

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### 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | 5000 mg/kg                             |
| LD50 dermal rat                   | 2000 mg/kg                             |
| Skin corrosion/irritation         | : Not classified                       |
| Serious eye damage/irritation     | : Not classified                       |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |
| Reproductive toxicity             | : Not classified                       |
| STOT-single exposure              | : Not classified                       |
| STOT-repeated exposure            | : Not classified                       |

### Ethoxylated bisphenol A dimethacrylate (41637-38-1)

|                            |                          |
|----------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 300 mg/kg bodyweight/day |
|----------------------------|--------------------------|

### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

|                            |                           |
|----------------------------|---------------------------|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight/day |
|----------------------------|---------------------------|

### 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

|                            |                                |
|----------------------------|--------------------------------|
| NOAEL (oral, rat, 90 days) | 100 - 300 mg/kg bodyweight/day |
|----------------------------|--------------------------------|

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |  |
|--------------------------|--|
| Ecology - general        | : Avoid release to the environment.                  |
| Acute aquatic toxicity   | : Not classified                                     |
| Chronic aquatic toxicity | : Harmful to aquatic life with long lasting effects. |

### Ethoxylated bisphenol A dimethacrylate (41637-38-1)

|                |                |
|----------------|----------------|
| NOEC (chronic) | 14,3 mg/l 28 d |
|----------------|----------------|

### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

|                    |                 |
|--------------------|-----------------|
| LC50 fishes        | 0,09 mg/l       |
| EC50 Daphnia       | 1,175 mg/l      |
| EC50 72h algae (1) | 0,26 mg/l       |
| LOEC (chronic)     | 0,008 mg/l      |
| NOEC (chronic)     | 0,008 mg/l 21 d |
| NOEC chronic algae | 0,26 mg/l       |

### 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

|                    |           |
|--------------------|-----------|
| LC50 fishes        | 10,1 mg/l |
| EC50 Daphnia       | 1,2 mg/l  |
| EC50 72h algae (1) | 0,68 mg/l |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### Ethoxylated bisphenol A dimethacrylate (41637-38-1)

|         |                       |
|---------|-----------------------|
| Log Pow | 3,43 - 5,62 @ pH 6.44 |
|---------|-----------------------|

### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

|         |                                  |
|---------|----------------------------------|
| Log Pow | 4,65 - 5,8 @ 20-22 °C and pH 7.5 |
|---------|----------------------------------|

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### 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

Log Pow 3 - 3,39 @ 20 °C and pH 7

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Can be dumped in according to local regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

##### Transport by sea

Not applicable

##### Air transport

Not applicable

##### Inland waterway transport

Not applicable

##### Rail transport

Not applicable

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

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

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

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3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Ceramill Ortho Rigid - Ethoxylated bisphenol A dimethacrylate - 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 0 %

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| EC50                        | Median effective concentration  |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OECD                        | Organisation for Economic Co-operation and Development  |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| STP                         | Sewage treatment plant  |
| TLM                         | Median Tolerance Limit  |
| SDS                         | Safety Data Sheet   |
| vPvB                        | Very Persistent and Very Bioaccumulative  |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.



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### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H- and EUH-statements:   |   |                    |
|---|---|--------------------|
| Aquatic Chronic 2   | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |                    |
| Aquatic Chronic 4   | Hazardous to the aquatic environment — Chronic Hazard, Category 4 |                    |
| Skin Sens. 1  | Skin sensitisation, Category 1                                    |                    |
| Skin Sens. 1B   | Skin sensitisation, category 1B                                   |                    |
| H317  | May cause an allergic skin reaction.                              |                    |
| 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.           |                    |
| Full text of use descriptors  |   |                    |
| SU20  | Health services   |                    |
| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |   |                    |
| Skin Sens. 1  | H317  | Calculation method |
| Aquatic Chronic 3   | H412  | Calculation method |

### SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*