

according to Regulation (EC) No 1907/2006

| <u>1.1. Product identifier</u><br>picopreci plus<br><b>Further trade names</b><br>picopreci plus rosa<br>picopreci plus zahnfarben<br>picopreci plus rosa-opak | picopreci plus  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|
| <u>1.1. Product identifier</u><br>picopreci plus<br><b>Further trade names</b><br>picopreci plus rosa<br>picopreci plus zahnfarben<br>picopreci plus rosa-opak | S22XX Page 1 of 11  |  |  |  |  |  |  |  |  |
| picopreci plus<br><b>Further trade names</b><br>picopreci plus rosa<br>picopreci plus zahnfarben<br>picopreci plus rosa-opak                                   | SECTION 1: Identification of the substance/mixture and of the company/undertaking |  |  |  |  |  |  |  |  |
| picopreci plus rosa<br>picopreci plus zahnfarben<br>picopreci plus rosa-opak   |   |  |  |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |  |  |
| 1.2. Relevant identified uses of the substance or mixture and uses advi  | ised against  |  |  |  |  |  |  |  |  |
| Use of the substance/mixture<br>light curing dental resin  |   |  |  |  |  |  |  |  |  |
| 1.3. Details of the supplier of the safety data sheet  |   |  |  |  |  |  |  |  |  |
| Manufacturer   |   |  |  |  |  |  |  |  |  |
| Company name: DeltaMed GmbH  |   |  |  |  |  |  |  |  |  |
| Street: Raiffeisenstraße 8a  |   |  |  |  |  |  |  |  |  |
| Place: 61169 Friedberg   |   |  |  |  |  |  |  |  |  |
| Telephone: +49 6031 7283-0   | Telefax: +49 6031 7283-29   |  |  |  |  |  |  |  |  |
| E-mail: info@deltamed.de   |   |  |  |  |  |  |  |  |  |
| Internet: www.deltamed.de  |   |  |  |  |  |  |  |  |  |
| Responsible Department: F&E  |   |  |  |  |  |  |  |  |  |
| Telefax +49 6031 7283-29   |   |  |  |  |  |  |  |  |  |
| Supplier   |   |  |  |  |  |  |  |  |  |
| Company name: picodent GmbH  |   |  |  |  |  |  |  |  |  |
| Street: Lüdenscheider Str. 24-26   |   |  |  |  |  |  |  |  |  |
| Place: 51688 Wipperfürth   |   |  |  |  |  |  |  |  |  |
| Telephone: +49 2267 6580-0   |   |  |  |  |  |  |  |  |  |
| Internet: picodent@picodent.de   |   |  |  |  |  |  |  |  |  |
| Responsible Department: MoFr. 7.30 - 16.45 Uhr   |   |  |  |  |  |  |  |  |  |
| 1.4. Emergency telephone Giftinformationszentrum Universit   | äteklinikum Mainz   |  |  |  |  |  |  |  |  |

Telefon +49 6131 19240

# number:

SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

Hazard components for labelling urethane dimethacrylate (UDMA) acrylic resin 1,4 Butanediol dimethacrylate (1,4-BDDMA) Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) Signal word: Warning



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| Pictograms:              |  |             |  |  |  |
| Hazard statements        |  |             |  |  |  |
| H317                     | May cause an allergic skin reaction.                               |             |  |  |  |
| H411                     | Toxic to aquatic life with long lasting effects.                   |             |  |  |  |
| Precautionary statemer   | nts  |             |  |  |  |
| P261                     | Avoid breathing dust/vapours/spray.                                |             |  |  |  |
| P273                     | Avoid release to the environment.                                  |             |  |  |  |
| P280                     | Wear protective gloves/protective clothing/eye protection.         |             |  |  |  |
| P302+P352                | IF ON SKIN: Wash with plenty of water and soap.                    |             |  |  |  |
| P333+P313                | If skin irritation or rash occurs: Get medical advice/attention.   |             |  |  |  |
| P391                     | Collect spillage.  |             |  |  |  |
| P501                     | Dispose of contents/container in accordance with local regulation. |             |  |  |  |
| Special labelling of cer | tain mixtures  |             |  |  |  |
| . 0                      | Restricted to professional users.                                  |             |  |  |  |

# 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

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

# 3.2. Mixtures

#### Chemical characterization

Mixture of acrylic resins, fillers and initiators.

### Hazardous components

| CAS No     | Chemical name                               |                           |          |           |
|------------|---|---------------------------|----------|-----------|
|            | EC No                                       | Index No                  | REACH No |           |
|            | Classification (Regulation (EC)             | No 1272/2008)             |          |           |
| 72869-86-4 | urethane dimethacrylate (UDMA               | A)                        |          | 50 - 70 % |
|            | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 |                           |          |           |
|            | acrylic resin                               |                           |          |           |
|            | Skin Sens. 1B, Aquatic Chronic              | 2; H317 H411              |          |           |
| 2082-81-7  | 1,4 Butanediol dimethacrylate (             | 1,4-BDDMA)                |          | < 20 %    |
|            | Skin Sens. 1B; H317                         |                           |          |           |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl             | )phosphine oxide (TPO)    |          | < 1 %     |
|            | 278-355-8                                   | 015-203-00-X              |          |           |
|            | Repr. 2, Skin Sens. 1B, Aquatic             | Chronic 2; H361f H317 H41 | 1        |           |

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  |           |
| 72869-86-4 |                         | urethane dimethacrylate (UDMA)   | 50 - 70 % |
|            | inhalation: LC<br>mg/kg | 250 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 |           |
|            |                         | acrylic resin  | 20 - 40 % |
|            | dermal: LD50            | = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg                                      |           |
| 2082-81-7  |                         | 1,4 Butanediol dimethacrylate (1,4-BDDMA)                                      | < 20 %    |
|            | dermal: LD50            | = > 3000 mg/kg; oral: LD50 = > 5000 mg/kg                                      |           |
| 75980-60-8 | 278-355-8               | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)                          | < 1 %     |
|            | dermal: LD50            | ) = >2000 mg/kg; oral: LD50 = > 5000 mg/kg                                     |           |

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

#### After inhalation

Get medical advice/attention if you feel unwell. Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Do NOT induce vomiting. Medical treatment necessary.

#### 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

Foam, Extinguishing powder, Carbon dioxide.

#### Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Hazardous decomposition products.

#### 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



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#### 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.

# 6.3. Methods and material for containment and cleaning up

#### Other information

Larger quantities: Take up mechanically (by pumping). Smaller quantities and/or residues: Absorb with liquid-binding material (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

Do not breathe gas/fumes/vapour/spray. Provide fresh air.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

## Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. 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.

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

### Requirements for storage rooms and vessels

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

#### Hints on joint storage

No special measures are necessary.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **DNEL/DMEL** values

| CAS No  | Name of agent  |                |          |                        |  |  |  |
|---|--|----------------|----------|------------------------|--|--|--|
| DNEL type   |  | Exposure route | Effect   | Value                  |  |  |  |
| 72869-86-4  | urethane dimethacrylate (UDMA)                                       |                |          |                        |  |  |  |
| Worker DNEL,                                      | long-term  | dermal         | systemic | 1,3 mg/kg bw/day       |  |  |  |
| Worker DNEL, long-terminhalationsystemic3,3 mg/m³ |  |                |          |                        |  |  |  |
| 75980-60-8  | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)                |                |          |                        |  |  |  |
| Worker DNEL,                                      | long-term  | dermal         | systemic | 0,233 mg/kg<br>bw/day  |  |  |  |
| Consumer DNE                                      | Consumer DNEL, long-term inhalation systemic 0,145 mg/m <sup>3</sup> |                |          |                        |  |  |  |
| Consumer DNE                                      | EL, long-term  | oral           | systemic | 0,0833 mg/kg<br>bw/day |  |  |  |



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#### **PNEC** values

| CAS No  | Name of agent   |              |
|---|---|--------------|
| Environmenta  | l compartment   | Value        |
| 72869-86-4  | urethane dimethacrylate (UDMA)                        |              |
| Freshwater  |   | 0,01 mg/l    |
| Marine water  |   | 0,001 mg/l   |
| Freshwater se   | diment  | 4,56 mg/kg   |
| Marine sedime   | ent   | 0,46 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) 3,61 m |   | 3,61 mg/l    |
| Soil  |   | 0,91 mg/kg   |
| 75980-60-8  | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |              |
| Marine water  |   | 0,00014 mg/l |
| Freshwater se   | diment  | 0,115 mg/kg  |
| Marine sedime   | ent   | 0,0115 mg/kg |
| Soil  |   | 0,0222 mg/kg |

# 8.2. Exposure controls

Individual protection measures, such as personal protective equipment

#### Eye/face protection

Eye glasses with side protection

### Hand protection

butyl rubber gloves (0.7 mm), Break through time ca. 300 min (EN 374).Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

#### Skin protection

Wear suitable protective clothing.

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

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

| Physical state:                            | Gel                              |
|--|----------------------------------|
| Colour:                                    | various, depending on coloration |
| Odour:                                     | aromatic                         |
| Melting point/freezing point:              | not determined                   |
| Boiling point or initial boiling point and | not determined                   |
| boiling range:                             |                                  |
| Flammability:                              | flammable liquids                |
| Lower explosion limits:                    | not determined                   |
| Upper explosion limits:                    | not determined                   |
| Flash point:                               | > 100 °C °C                      |
| Auto-ignition temperature:                 | not determined                   |
| Decomposition temperature:                 | not determined                   |
| pH-Value:                                  | not determined                   |
| Viscosity / kinematic:                     | not determined                   |
| Water solubility:                          | not determined                   |
| Solubility in other solvents               |                                  |
| not determined                             |                                  |
| Partition coefficient n-octanol/water:     | not determined                   |
| Vapour pressure:                           | not determined                   |
| Density:                                   | 1,1 g/cm³                        |



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| Relative vapour density:               | not determined        |              |
| Particle characteristics:              | not applicable        |              |
| 9.2. Other information                 |                       |              |
| Information with regard to physical ha | zard classes          |              |
| Self-ignition temperature              |                       |              |
| Solid:                                 | not applicable        |              |
| Gas:                                   | not applicable        |              |
| Other safety characteristics           |                       |              |
| Evaporation rate:                      | not determined        |              |
| Solid content:                         | not determined        |              |
| Further Information                    |                       |              |

Product has not been tested. The statement is derived from the properties of the components.

# **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

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

#### 10.4. Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

# 10.5. Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, Acids, Alkali (lye)

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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| CAS No     | Chemical name   |               |         |         |          |          |  |
|------------|---|---------------|---------|---------|----------|----------|--|
|            | Exposure route  | Dose          |         | Species | Source   | Method   |  |
| 72869-86-4 | urethane dimethacrylate                               | (UDMA)        |         |         |          |          |  |
|            | oral  | LD50<br>mg/kg | >5000   | Rat     | OECD 401 |          |  |
|            | dermal  | LD50<br>mg/kg | >2000   | Rat     | OECD 402 |          |  |
|            | inhalation (4 h)<br>dust/mist                         | LC50          | >5 mg/l |         |          |          |  |
|            | acrylic resin   |               |         |         |          |          |  |
|            | oral  | LD50<br>mg/kg | > 2000  | Rat     | OECD 423 |          |  |
|            | dermal  | LD50<br>mg/kg | > 2000  | Rat     | OECD 402 |          |  |
| 2082-81-7  | 1,4 Butanediol dimethad                               | rylate (1,4-E | BDDMA)  |         |          |          |  |
|            | oral  | LD50<br>mg/kg | > 5000  | Rat     | OECD 401 |          |  |
|            | dermal  | LD50<br>mg/kg | > 3000  | Rabbit  |          |          |  |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |               |         |         |          |          |  |
|            | oral  | LD50<br>mg/kg | > 5000  | Rat     | ECHA     | OECD 401 |  |
|            | dermal  | LD50<br>mg/kg | >2000   | Rat     | ECHA     |          |  |

# Irritation and corrosivity

Based on available data, the classification criteria are not met. May cause mild skin and eye irritation.

### Sensitising effects

May cause an allergic skin reaction. (urethane dimethacrylate (UDMA); acrylic resin; 1,4 Butanediol dimethacrylate (1,4-BDDMA); Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)) May cause sensitization by skin contact.

# Carcinogenic/mutagenic/toxic effects for reproduction

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

# STOT-single exposure

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

# STOT-repeated exposure

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

# Aspiration hazard

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

# 11.2. Information on other hazards

# Further information

The product has not been tested. The statement is derived from the properties of the single components.

# **SECTION 12: Ecological information**

# 12.1. Toxicity



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| CAS No     | Chemical name   |                |          |           |                                    |          |          |  |  |
|------------|---|----------------|----------|-----------|------------------------------------|----------|----------|--|--|
|            | Aquatic toxicity                                      | Dose           |          | [h]   [d] | Species                            | Source   | Method   |  |  |
| 72869-86-4 | urethane dimethacrylate (                             | UDMA)          |          |           |                                    |          |          |  |  |
|            | Acute fish toxicity                                   | LC50<br>mg/l   | 10,1     | 96 h      | Danio rerio (zebrafish)            | OECD 203 |          |  |  |
|            | Acute algae toxicity                                  | ErC50<br>mg/l  | >0,68    | 72 h      | Desmodesmus<br>subspicatus         | OECD 201 |          |  |  |
|            | Acute crustacea toxicity                              | EC50<br>mg/l   | >1,2     |           | Daphnia magna (Big<br>water flea)  |          |          |  |  |
|            | acrylic resin   |                |          |           |                                    |          |          |  |  |
|            | Acute fish toxicity                                   | LC50<br>mg/l   | 1,65     | 96 h      | Danio rerio (zebrafish)            | OECD 203 |          |  |  |
|            | Acute algae toxicity                                  | ErC50          | 1,6 mg/l | 72 h      | Pseudokirchneriella<br>subcapitata | OECD 201 |          |  |  |
|            | Acute crustacea toxicity                              | EC50<br>mg/l   | 2,36     |           | Daphnia magna (Big<br>water flea)  | OECD 202 |          |  |  |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |                |          |           |                                    |          |          |  |  |
|            | Acute fish toxicity                                   | LC50           | 1,4 mg/l | 96 h      | Cyprinus carpio<br>(Common Carp)   | ECHA     | OECD 203 |  |  |
|            | Acute algae toxicity                                  | ErC50<br>mg/l  | >2,01    | 72 h      | Daphnia magna (Big<br>water flea)  | ECHA     | OECD 201 |  |  |
|            | Acute crustacea toxicity                              | EC50<br>mg/l   | 3,53     | 48 h      | Daphnia magna (Big<br>water flea)  | ECHA     | OECD 202 |  |  |
|            | Acute bacteria toxicity                               | (EC50<br>mg/l) | >1000    | 3 h       | Activated sludge                   | ECHA     | OECD 209 |  |  |

# 12.2. Persistence and degradability

The product has not been tested.

| CAS No     | Chemical name  |       |    |            |  |  |  |
|------------|--|-------|----|------------|--|--|--|
|            | Method   | Value | d  | Source     |  |  |  |
|            | Evaluation   |       |    |            |  |  |  |
| 72869-86-4 | urethane dimethacrylate (UDMA)                         |       |    |            |  |  |  |
|            | Biodegradation   | 22 %  | 28 | OECD 301 F |  |  |  |
|            | acrylic resin  |       |    |            |  |  |  |
|            | OECD 301 F 27 % 56                                     |       |    |            |  |  |  |
|            | Not readily biodegradable (according to OECD criteria) |       |    |            |  |  |  |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)  |       |    |            |  |  |  |
|            | OECD 301 F 0-10 % 28                                   |       |    |            |  |  |  |
|            | Not readily biodegradable (according to OECD criteria) |       |    |            |  |  |  |

# 12.3. Bioaccumulative potential

The product has not been tested.

BCF

| CAS No | Chemical name   | BCF   | Species | Source |
|--------|---|-------|---------|--------|
|        | Diphenyl(2,4,6-trimethylbenzoyl)phosph<br>ine oxide (TPO) | 47-55 |         |        |

# 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 REACH, annex XIII. The product has not been tested.



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# 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 uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

#### List of Wastes Code - used product

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

#### List of Wastes Code - contaminated packaging

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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

#### Land transport (ADR/RID)

| )  |  |
|--|--|
| 14.1. UN number or ID number:              | UN 3082  |
| 14.2. UN proper shipping name:             | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                      |
|  | (ACRYLIC RESIN)  |
| 14.3. Transport hazard class(es):          | 9  |
| 14.4. Packing group:                       | III  |
| Hazard label:                              | 9  |
| Classification code:                       | M6   |
| Special Provisions:                        | 274 335 375 601  |
| Limited quantity:                          | 5 L  |
| Excepted quantity:                         | E1   |
| Transport category:                        | 3  |
| Hazard No:                                 | 90   |
| Tunnel restriction code:                   | E  |
| Other applicable information (land transp  | ort)   |
| SV 375: These substances, when carrie      | ed in single or combination packagings of a net quantity not exceeding 5 |
| litres of liquids or a net mass not exceed | ding 5 kg of solids per single or combination packaging, are not subject |
| to the other provisions of ADR, provided   | the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and       |
| 4.1.1.4 to 4.1.1.8.                        |  |
| Inland waterways transport (ADN)           |  |
| 14.1. UN number or ID number:              | UN 3082  |



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|--|--|--------------|
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| 14.2. UN proper shipping name:   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(ACRYLIC RESIN)   |              |
| 14.3. Transport hazard class(es):  | 9  |              |
| 14.4. Packing group:   | III  |              |
| Hazard label:  | 9  |              |
| Classification code:   | M6   |              |
| Special Provisions:  | 274 335 375 601  |              |
| Limited quantity:  | 5 L  |              |
| Excepted quantity:   | E1   |              |
| Marine transport (IMDG)  |  |              |
| 14.1. UN number or ID number:  | UN 3082  |              |
| 14.2. UN proper shipping name:   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN)  |              |
| <u>14.3. Transport hazard class(es):</u>   | 9  |              |
| 14.4. Packing group:   | III  |              |
| Hazard label:  | 9  |              |
| Special Provisions:  | 274, 335, 969  |              |
| Limited quantity:  | 5 L  |              |
| Excepted quantity:   | E1   |              |
| EmS:   | F-A, S-F   |              |
| Air transport (ICAO-TI/IATA-DGR)   |  |              |
| <u>14.1. UN number or ID number:</u>   | UN 3082  |              |
| 14.2. UN proper shipping name:   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN)  |              |
| <u>14.3. Transport hazard class(es):</u>   | 9  |              |
| 14.4. Packing group:   |  |              |
| Hazard label:  | 9  |              |
| Special Provisions:  | A97 A158 A197  |              |
| Limited quantity Passenger:  | 30 kg G  |              |
| Passenger LQ:<br>Excepted quantity:  | Y964<br>E1   |              |
| IATA-packing instructions - Passenger:   | 964  |              |
| IATA-max. quantity - Passenger:  | 450 L  |              |
| IATA-packing instructions - Cargo:   | 964  |              |
| IATA-max. quantity - Cargo:  | 450 L  |              |
| Other applicable information (air transpo  |  |              |
| A 197: These substances are not subjection combination packagings with a net qua | ect to other provisions of these Regulations when carried in single or<br>antity per single or inner packaging not exceeding 5L for liquids and a nei<br>es, provided the packagings meet the general requirements of 5.0.2.4.1, |              |
| 4.5. Environmental hazards   |  |              |
| ENVIRONMENTALLY HAZARDOUS:   | Yes  |              |
| Danger releasing substance:  | ACRYLIC RESIN  |              |
|  |  |              |
| <b>14.6. Special precautions for user</b><br>No information available.           |  |              |
| 14.7. Maritime transport in bulk according to                                    | o 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



### according to Regulation (EC) No 1907/2006

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Authorisations (REACH, annex XIV): Substances of very high concern, SVHC (REACH, article 59):

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

#### National regulatory information

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**

#### Changes

This data sheet contains changes from the previous version in section(s): 2,5,9,16. Matter of revision: Regulation (EU) No. 2020/878, Annex II.

#### 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% Skin Sens: Skin sensitisation Repr: Reproductive toxicity Aquatic Chronic: Chronic aquatic hazard

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

| Classification          | Classification procedure |  |
|-------------------------|--------------------------|--|
| Skin Sens. 1; H317      | Calculation method       |  |
| Aquatic Chronic 2; H411 | Calculation method       |  |

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

|       | · · · · · · · · · · · · · · · · · · · |
|-------|---------------------------------------|
| H317  | May cause an allergic skin reaction.  |
| H361f | Suspected of damaging fertility.      |
|       |                                       |

H411 Toxic to aquatic life with long lasting effects.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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



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

#### 1.1. Product identifier

picopreci plus bonder

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

Use of the substance/mixture

dental use

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

| Manufacturer             |  |                           |
|--------------------------|--|---------------------------|
| Company name:            | DeltaMed GmbH                                  |                           |
| Street:                  | Raiffeisenstraße 8a                            |                           |
| Place:                   | 61169 Friedberg                                |                           |
| Telephone:               | +49 6031 7283-0                                | Telefax: +49 6031 7283-29 |
| E-mail:                  | info@deltamed.de                               |                           |
| Internet:                | www.deltamed.de                                |                           |
| Responsible Department:  | F&E  |                           |
|                          | Telefax +49 6031 7283-29                       |                           |
| Supplier                 |  |                           |
| Company name:            | picodent GmbH                                  |                           |
| Street:                  | Lüdenscheider Str. 24-26                       |                           |
| Place:                   | 51688 Wipperfürth                              |                           |
| Telephone:               | +49 2267 6580-0                                |                           |
| Internet:                | picodent@picodent.de                           |                           |
| Responsible Department:  | MoFr. 7.30 - 16.45 Uhr                         |                           |
| 1.4. Emergency telephone | Giftinformationszentrum Universitätsklinikum N | <i>l</i> lainz            |
| number:                  | Telefon +49 6131 19240                         |                           |

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

# 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

# Regulation (EC) No 1272/2008

# Hazard components for labelling

methyl methacrylate 2-Propenoic acid, reaction products with pentaerythritol (PETIA / PETTA) Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

# Signal word:

**Pictograms:** 





according to Regulation (EC) No 1907/2006

picopreci plus bonder Revision date: 12.09.2023 Product code: 1352250 Page 2 of 11 Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eve damage. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina. P261 Avoid breathing dust/vapours/spray. P273 Avoid release to the environment. Wear protective gloves/protective clothing/eye protection. P280 P302+P352 IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with local regulation.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

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

## 3.2. Mixtures

Chemical characterization

Mixture of acrylic resins and initiators.

# Hazardous components

| CAS No       | Chemical name  |                                       |                     | Quantity  |
|--------------|--|---------------------------------------|---------------------|-----------|
|              | EC No  | Index No                              | REACH No            |           |
|              | Classification (Regulation (EC) No                                       | 1272/2008)                            |                     |           |
| 80-62-6      | methyl methacrylate  |                                       |                     | 40 - 60 % |
|              | 201-297-1  | 607-035-00-6                          |                     |           |
|              | Flam. Liq. 2, Skin Irrit. 2, Skin Sens                                   | 5. 1, STOT SE 3; H225 H315 H317 H     | 335                 |           |
|              | acrylic resin  |                                       |                     | 20 - 40 % |
|              | Eye Irrit. 2; H319   |                                       |                     |           |
| 1245638-61-2 | 2-Propenoic acid, reaction products with pentaerythritol (PETIA / PETTA) |                                       |                     | < 10 %    |
|              | 629-850-6  |                                       |                     |           |
|              | Acute Tox. 4, Skin Irrit. 2, Eye Dam<br>H411                             | . 1, Skin Sens. 1, Aquatic Chronic 2; | H302 H315 H318 H317 |           |
| 75980-60-8   | -60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)              |                                       |                     | < 1 %     |
|              | 278-355-8  |                                       |                     |           |
|              | Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411               |                                       |                     |           |

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                            |  |           |
| 80-62-6      | 201-297-1   | methyl methacrylate  | 40 - 60 % |
|              | inhalation: LC5   | ;0 = 78 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg |           |
|              |   | acrylic resin  | 20 - 40 % |
|              | inhalation: LC50 = > 5 mg/l (dusts or mists)                        |  |           |
| 1245638-61-2 | 629-850-6   | 2-Propenoic acid, reaction products with pentaerythritol (PETIA / PETTA)       | < 10 %    |
|              | inhalation: LC50 = > 5 mg/l (dusts or mists); oral: ATE = 500 mg/kg |  |           |
| 75980-60-8   | 278-355-8   | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)                          | < 1 %     |
|              | dermal: LD50 = >2000 mg/kg; oral: LD50 = > 5000 mg/kg               |  |           |

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

#### 4.1. Description of first aid measures

#### **General information**

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

#### 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 plenty of water and soap. 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

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth immediately and drink plenty of water.

#### 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

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water, Full water jet

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

Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated:Hazardous decomposition products

## 5.3. Advice for firefighters

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

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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

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

#### General advice

Remove all sources of ignition. 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 uncontrolled discharge of product into the environment.

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

### Other information

Absorb with liquid-binding material (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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### 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 or drink.

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

#### Requirements for storage rooms and vessels

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

#### Hints on joint storage

Do not store together with: Oxidising agent.

## Further information on storage conditions

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

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

dental use

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

#### 8.1. Control parameters

#### Occupational exposure limit values

| CAS No  | Name of agent       | ppm | mg/m³ | fib/cm³ | Category      | Origin |
|---------|---------------------|-----|-------|---------|---------------|--------|
| 80-62-6 | Methyl methacrylate | 50  | -     |         | TWA (8 h)     |        |
|         |                     | 100 | -     |         | STEL (15 min) |        |



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### **DNEL/DMEL** values

| CAS No       | Name of agent   |                |          |                        |  |
|--------------|---|----------------|----------|------------------------|--|
| DNEL type    |   | Exposure route | Effect   | Value                  |  |
| 75980-60-8   | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |                |          |                        |  |
| Worker DNEL, | long-term   | dermal         | systemic | 0,233 mg/kg<br>bw/day  |  |
| Consumer DN  | EL, long-term   | inhalation     | systemic | 0,145 mg/m³            |  |
| Consumer DN  | EL, long-term   | oral           | systemic | 0,0833 mg/kg<br>bw/day |  |

# **PNEC** values

| CAS No   | Name of agent                   |              |  |
|--|---------------------------------|--------------|--|
| Environmental  | Environmental compartment Value |              |  |
| 75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |                                 |              |  |
| Marine water   | Marine water 0,00014 mg/l       |              |  |
| Freshwater sediment 0,115 mg/kg                                  |                                 | 0,115 mg/kg  |  |
| Marine sediment 0,011  |                                 | 0,0115 mg/kg |  |
| Soil 0,0222 mg/kg  |                                 | 0,0222 mg/kg |  |

## 8.2. Exposure controls

# Appropriate engineering controls

Do not breathe gas/fumes/vapour/spray.

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

#### Eye/face protection

tightly fitting goggles

## Hand protection

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

### 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:                                    | colourless |                |                   |
| Odour:                                     | stinging   |                |                   |
|  |            |                | Test method       |
| Melting point/freezing point:              |            | not determined |                   |
| Boiling point or initial boiling point and |            | 100 °C         | Methylmethacrylat |
| boiling range:                             |            |                |                   |
| Flammability:                              |            | not determined |                   |
| Lower explosion limits:                    |            | not determined |                   |
| Upper explosion limits:                    |            | not determined |                   |
| Flash point:                               |            | 10 °C          | Methylmethacrylat |
| Auto-ignition temperature:                 |            | 430 °C         | Methylmethacrylat |
| Decomposition temperature:                 |            | not determined |                   |
| pH-Value:                                  |            | not determined |                   |
|  |            |                |                   |



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| Viscosity / kinematic:                           | not determined        | 1                              |  |
| Water solubility:                                | not determined        | 1                              |  |
| Solubility in other solvents                     |                       |                                |  |
| not determined                                   |                       |                                |  |
| Partition coefficient n-octanol/water:           | not determined        | 1                              |  |
| Vapour pressure:                                 | 38,7 hPa              | a Methylmethacrylat            |  |
| (at 20 °C)                                       |                       |                                |  |
| Density (at 20 °C):                              | 0,94 g/cm             | <sup>3</sup> Methylmethacrylat |  |
| Relative vapour density:                         | not determined        | 1                              |  |
| Particle characteristics:                        | not applicable        | 9                              |  |
| 9.2. Other information                           |                       |                                |  |
| Information with regard to physical hazard class | es                    |                                |  |
| Self-ignition temperature                        |                       |                                |  |
| Solid:   | not applicable        | 9                              |  |
| Gas:   | not applicable        | 9                              |  |
| Oxidizing properties                             |                       |                                |  |
| Not oxidising.                                   |                       |                                |  |
| Other safety characteristics                     |                       |                                |  |
| Evaporation rate:                                | not determined        | 1                              |  |
| Solid content:                                   | not determined        | 1                              |  |

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable, Ignition hazard.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

#### 10.4. Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

# 10.5. Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, Peroxides.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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

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

#### Acute toxicity

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

# ATEmix calculated

ATE (oral) 5039 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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| CAS No           | Chemical name                 |               |               |                         |        |          |  |
|------------------|-------------------------------|---------------|---------------|-------------------------|--------|----------|--|
|                  | Exposure route                | Dose          |               | Species                 | Source | Method   |  |
| 80-62-6          | methyl methacrylate           |               |               |                         |        |          |  |
|                  | oral                          | LD50<br>mg/kg | > 5000        | Rat                     |        |          |  |
|                  | dermal                        | LD50<br>mg/kg | > 5000        | Rat                     |        |          |  |
|                  | inhalation (4 h) vapour       | LC50          | 78 mg/l       | RTECS                   |        |          |  |
|                  | acrylic resin                 |               |               |                         |        |          |  |
|                  | inhalation (4 h)<br>dust/mist | LC50          | > 5 mg/l      |                         |        |          |  |
| 1245638-61-<br>2 | 2-Propenoic acid, reaction    | on products   | with pentaery | thritol (PETIA / PETTA) |        |          |  |
|                  | oral                          | ATE<br>mg/kg  | 500           |                         |        |          |  |
|                  | inhalation (4 h)<br>dust/mist | LC50          | > 5 mg/l      | Rat                     |        |          |  |
| 75980-60-8       | Diphenyl(2,4,6-trimethylk     | enzoyl)pho    | sphine oxide  | (TPO)                   |        |          |  |
|                  | oral                          | LD50<br>mg/kg | > 5000        | Rat                     | ECHA   | OECD 401 |  |
|                  | dermal                        | LD50<br>mg/kg | >2000         | Rat                     | ECHA   |          |  |

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

# Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; 2-Propenoic acid, reaction products with pentaerythritol (PETIA / PETTA); Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO))

# Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

May cause respiratory irritation. (methyl methacrylate)

# 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

The mixture is classified as hazardous according to Directive 1999/45/EC.

### **SECTION 12: Ecological information**

# 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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| CAS No     | Chemical name   |                     |          |           |  |        |          |  |
|------------|---|---------------------|----------|-----------|--|--------|----------|--|
|            | Aquatic toxicity                                      | Dose                |          | [h]   [d] | Species                                | Source | Method   |  |
| 80-62-6    | methyl methacrylate                                   | methyl methacrylate |          |           |  |        |          |  |
|            | Acute fish toxicity                                   | LC50<br>mg/l        | > 79     | 96 h      | Oncorhynchus mykiss<br>(Rainbow trout) |        |          |  |
|            | Acute crustacea toxicity                              | EC50                | 69 mg/l  |           | Daphnia magna (Big<br>water flea)      |        |          |  |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |                     |          |           |  |        |          |  |
|            | Acute fish toxicity                                   | LC50                | 1,4 mg/l | 96 h      | Cyprinus carpio<br>(Common Carp)       | ECHA   | OECD 203 |  |
|            | Acute algae toxicity                                  | ErC50<br>mg/l       | >2,01    |           | Daphnia magna (Big<br>water flea)      | ECHA   | OECD 201 |  |
|            | Acute crustacea toxicity                              | EC50<br>mg/l        | 3,53     | 48 h      | Daphnia magna (Big<br>water flea)      | ECHA   | OECD 202 |  |
|            | Acute bacteria toxicity                               | (EC50<br>mg/l)      | >1000    | 3 h       | Activated sludge                       | ECHA   | OECD 209 |  |

# 12.2. Persistence and degradability

The product has not been tested.

| CAS No     | Chemical name  |  |  |  |
|------------|--|--|--|--|
|            | Method Value d Source                                  |  |  |  |
|            | Evaluation   |  |  |  |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)  |  |  |  |
|            | OECD 301 F 0-10 % 28                                   |  |  |  |
|            | Not readily biodegradable (according to OECD criteria) |  |  |  |

# 12.3. Bioaccumulative potential

The product has not been tested.

BCF

| CAS No | Chemical name   | BCF   | Species | Source |
|--------|---|-------|---------|--------|
|        | Diphenyl(2,4,6-trimethylbenzoyl)phosph<br>ine oxide (TPO) | 47-55 |         |        |

### 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 REACH, annex XIII. 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**

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to



according to Regulation (EC) No 1907/2006

| â   | according to Regulation (EC) No 1907/2006   |              |  |  |
|---|---|--------------|--|--|
|   | picopreci plus bonder   |              |  |  |
| Devision data 40.00.0000  |   |              |  |  |
| Revision date: 12.09.2023   | Product code: 1352250   | Page 9 of 11 |  |  |
| enter into surface water or drains. Do no applicable legislation. | ot allow to enter into soil/subsoil. Dispose of waste according to  |              |  |  |
| List of Wastes Code - residues/unused pr                          | oducts  |              |  |  |
|   | CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic s; other still bottoms and reaction residues; hazardous waste |              |  |  |
| List of Wastes Code - contaminated pack                           | aging   |              |  |  |
|   | CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic s; other still bottoms and reaction residues; hazardous waste |              |  |  |
| Contaminated packaging  |   |              |  |  |
|   | cycled. Handle contaminated packages in the same way as the   |              |  |  |
| SECTION 14: Transport information                                 |   |              |  |  |
| Land transport (ADR/RID)  |   |              |  |  |
| 14.1. UN number or ID number:                                     | UN 1247   |              |  |  |
| 14.2. UN proper shipping name:                                    | METHYL METHACRYLATE MONOMER, STABILIZED   |              |  |  |
| 14.3. Transport hazard class(es):                                 | 3   |              |  |  |
| 14.4. Packing group:  | II  |              |  |  |
| Hazard label:   | 3   |              |  |  |
| Classification code:  | F1  |              |  |  |
| Limited quantity:   | 1 L   |              |  |  |
| Transport category:   | 2   |              |  |  |
| Hazard No:  | 339   |              |  |  |
| Tunnel restriction code:  | D/E   |              |  |  |
| Other applicable information (land transp<br>E2                   | ort)  |              |  |  |
| Inland waterways transport (ADN)                                  |   |              |  |  |
| 14.1. UN number or ID number:                                     | UN 1247   |              |  |  |
| 14.2. UN proper shipping name:                                    | METHYL METHACRYLATE MONOMER, STABILIZED   |              |  |  |
| 14.3. Transport hazard class(es):                                 | 3   |              |  |  |
| 14.4. Packing group:  | II  |              |  |  |
| Hazard label:   | 3   |              |  |  |
| Classification code:  | F1  |              |  |  |
| Limited quantity:   | 1 L   |              |  |  |
| Other applicable information (inland wate<br>E2                   | rways transport)  |              |  |  |
| Marine transport (IMDG)   |   |              |  |  |
| 14.1. UN number or ID number:                                     | UN 1247   |              |  |  |
| 14.2. UN proper shipping name:                                    | METHYL METHACRYLATE MONOMER, STABILIZED   |              |  |  |
| 14.3. Transport hazard class(es):                                 | 3   |              |  |  |
| 14.4. Packing group:  | Ш   |              |  |  |
| Hazard label:   | 3   |              |  |  |
| Special Provisions:   | -   |              |  |  |
| Limited quantity:   | 1 L   |              |  |  |
| EmS:  | F-E, S-D  |              |  |  |
| Other applicable information (marine transport)<br>E2             |   |              |  |  |
| Air transport (ICAO-TI/IATA-DGR)                                  |   |              |  |  |
| 44.4 UN south an an ID south as                                   |   |              |  |  |

14.4. Packing group:

14.1. UN number or ID number: 14.2. UN proper shipping name:

14.3. Transport hazard class(es):

METHYL METHACRYLATE MONOMER, STABILIZED

UN 1247

3

П



# according to Regulation (EC) No 1907/2006

| picopreci plus bonder                        |               |                     |               |
|--|---------------|---------------------|---------------|
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| Hazard label:                                | 3             |                     |               |
| Limited quantity Passenger:                  | 1 L           |                     |               |
| IATA-packing instructions - Passenger:       |               | 353                 |               |
| IATA-max. quantity - Passenger:              |               | 5 L                 |               |
| IATA-packing instructions - Cargo:           |               | 364                 |               |
| IATA-max. quantity - Cargo:                  |               | 60 L                |               |
| Other applicable information (air transp     | ort)          |                     |               |
| Passenger-LQ: Y341                           |               |                     |               |
| E2   |               |                     |               |
| 14.6. Special precautions for user           |               |                     |               |
| No information available.                    |               |                     |               |
| 14.7. Maritime transport in bulk according t | o IMO instrum | nents               |               |
| not applicable                               |               |                     |               |

# **SECTION 15: Regulatory information**

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

### EU regulatory information

Authorisations (REACH, annex XIV): Substances of very high concern, SVHC (REACH, article 59): Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

# Additional information

Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing (Directive 92/85/EEC).

#### National regulatory information

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**

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,9,10,15. Matter of revision: Regulation (EU) No. 2020/878, Annex II.



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#### 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% Flam, Lig: Flammable liquid Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation Repr: Reproductive toxicity STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Chronic aquatic hazard

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

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225      | On basis of test data    |
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Dam. 1; H318        | 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)

| H225  | Highly flammable liquid and vapour.                |
|-------|--|
| H302  | Harmful if swallowed.                              |
| H315  | Causes skin irritation.                            |
| H317  | May cause an allergic skin reaction.               |
| H318  | Causes serious eye damage.                         |
| 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. |

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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