



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

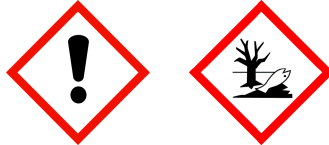
### picopreci plus

Revision date: 14.03.2018

Product code: 13522XX

Page 2 of 9

#### Pictograms:



#### Hazard statements

- H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection.  
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local regulation.

#### 2.3. Other hazards

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   |              |          | Quantity  |
|------------|---|--------------|----------|-----------|
|            | EC No   | Index No     | REACH No |           |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP] |              |          |           |
| 72869-86-4 | Urethane dimethacrylate (UDMA)                                  |              |          | 50 - 70 % |
|            | Skin Sens. 1, Aquatic Chronic 3; H317 H412                      |              |          |           |
|            | acrylic resin   |              |          | 20 - 40 % |
|            | 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. 1, Aquatic Chronic 2; H361f H317 H411       |              |          |           |

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

## 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. Medical treatment necessary.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### picopreci plus

Revision date: 14.03.2018

Product code: 13522XX

Page 3 of 9

#### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

#### **After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

#### **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**

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

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

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Provide good room ventilation.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### picopreci plus

Revision date: 14.03.2018

Product code: 13522XX

Page 4 of 9

#### 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.

#### Advice on storage compatibility

No special measures are necessary.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

##### Protective and hygiene measures

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.

##### Eye/face protection

tightly fitting goggles

##### 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   |
| pH-Value:                                | not determined   |
| <b>Changes in the physical state</b>     |  |
| Melting point:                           | not determined   |
| Initial boiling point and boiling range: | not determined   |
| Flash point:                             | > 100 °C °C  |
| <b>Flammability</b>                      |  |
| Solid:                                   | not applicable   |
| Gas:                                     | not applicable   |
| Lower explosion limits:                  | not determined   |
| Upper explosion limits:                  | not determined   |
| <b>Auto-ignition temperature</b>         |  |
| Solid:                                   | not applicable   |
| Gas:                                     | not applicable   |
| Decomposition temperature:               | not determined   |
| Vapour pressure:                         | not determined   |
| Density:                                 | 1,1 g/cm <sup>3</sup>  |
| Water solubility:                        | The study does not need to be conducted because the substance is known to be insoluble in water. |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### picopreci plus

Revision date: 14.03.2018

Product code: 13522XX

Page 5 of 9

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

The substance is not soluble in water.

|                        |                |
|------------------------|----------------|
| Partition coefficient: | not determined |
| Vapour density:        | not determined |
| Evaporation rate:      | not determined |

#### **9.2. Other information**

Solid content: not determined

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 toxicological effects**

##### **Acute toxicity**

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**picopreci plus**

Revision date: 14.03.2018

Product code: 13522XX

Page 6 of 9

| CAS No     | Chemical name   |                   |         |          |        |
|------------|---|-------------------|---------|----------|--------|
|            | Exposure route  | Dose              | Species | Source   | Method |
| 72869-86-4 | Urethane dimethacrylate (UDMA)                        |                   |         |          |        |
|            | oral  | LD50 >2000 mg/kg  | Rat     | OECD 401 |        |
|            | acrylic resin   |                   |         |          |        |
|            | oral  | LD50 > 2000 mg/kg | Rat     |          |        |
|            | dermal  | LD50 > 2000 mg/kg | Rat     |          |        |
| 2082-81-7  | 1,4 Butanediol dimethacrylate (1,4-BDDMA)             |                   |         |          |        |
|            | oral  | LD50 > 5000 mg/kg | Rat     | OECD 401 |        |
|            | dermal  | LD50 > 3000 mg/kg | Rabbit  |          |        |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |                   |         |          |        |
|            | oral  | LD50 > 5000 mg/kg | Rat     | RTECS    |        |

**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))  
Possible sensitization in case of persons suffering from hypersensitivity.

**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.

**Further information**

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

**SECTION 12: Ecological information**

**12.1. Toxicity**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### picopreci plus

Revision date: 14.03.2018

Product code: 13522XX

Page 7 of 9

| 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    | Brachydanio rerio<br>(zebra-fish) | OECD 203 |
|            | acrylic resin   |              |           |         |                                   |          |
|            | Acute fish toxicity                                   | LC50<br>mg/l | 4,95      | 96 h    |                                   |          |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) |              |           |         |                                   |          |
|            | Acute crustacea toxicity                              | EC50<br>mg/l | 3,53      | 48 h    | Daphnia                           |          |

#### 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 |  |

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

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

The product has not been tested.

#### 12.6. 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

##### Advice on disposal

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.

##### Waste disposal number of waste from 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

##### Waste disposal number of 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**picopreci plus**

Revision date: 14.03.2018

Product code: 13522XX

Page 8 of 9

**Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(ACRYLIC RESIN) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | 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  |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(ACRYLIC RESIN) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 9  |
| Classification code:                     | M6   |
| Special Provisions:                      | 274 335 375 601  |
| Limited quantity:                        | 5 L  |
| Excepted quantity:                       | E1   |

**Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(ACRYLIC RESIN) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | 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)**

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(ACRYLIC RESIN) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 9  |
| Special Provisions:                      | A97 A158 A197  |
| Limited quantity Passenger:              | 30 kg G  |
| Passenger LQ:                            | Y964   |
| Excepted quantity:                       | E1   |
| IATA-packing instructions - Passenger:   | 964  |
| IATA-max. quantity - Passenger:          | 450 L  |



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**picopreci plus**

Revision date: 14.03.2018

Product code: 13522XX

Page 9 of 9

IATA-packing instructions - Cargo: 964  
IATA-max. quantity - Cargo: 450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes  
Danger releasing substance: ACRYLIC RESIN

**14.6. Special precautions for user**

No information available.

**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****National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

SECTION 8: Exposure controls/personal protection  
SECTION 15: Regulatory information

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

**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.  
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.)*