

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 1 of 10

1. Identification of the substance/preparation and of the company/undertaking

1.1 Information on the product

Trade name: picopreci plus glasklar

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

Use of the substance/mixture light curing dental resin

1.3 Details about the supplier of the safety data sheet

Manufacturer/Supplier:

Company name: Deltamed GmbH
Street: Raiffeisenstraße 8a
City: D-61169 Friedberg
Telephone: +49 6031 7283-0
E-Mail: info@deltamed.de
Internet: www.deltamed.de
Telefax: +49 6031 7283-29

Department for information: F&E
Telefax: +49 6031 7283-29

Distribution: picodent GmbH
Lüdenscheider Str. 24-26
D-51688 Wipperfürth
Telephone: +49 2267 6580-0
Mo.-Fr. 7.30 - 16.45 Uhr
picodent@picodent.de

1.4 Emergency contact number: Giftinformationszentrum Universitätsklinikum Mainz
Telephone +49 6131 19240

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

Pictograms:



Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 2 of 10

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.
P273 Avoid release to the environment.
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.

Special labelling of certain mixtures

Restricted to professional users.

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.

3. Composition/information on ingredients *

3.2. Mixtures

Chemical characterization

Mixture of acrylic resins and initiators.

Hazardous components

CAS No	Chemical name	Index No	REACH No	Quantity
	EC No			
	Classification (Regulation (EC) No 1272/2008)			
72869-86-4	urethane dimethacrylate (UDMA)			40 - 70 %
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			
	acrylic resin			20 - 50 %
	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.

Specific Conc. Limits, M-factors and ATE

CAS-Nr.	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
72869-86-4		urethane dimethacrylate (UDMA)	40 - 70 %
		inhalation: LC50 = >5 mg/l (dusts or mists); oral: LD50 = >2000 mg/kg	
		acrylic resin	20 - 50 %
		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)phosphinioxid (TPO)	< 1 %
		oral: LD50 = > 5000 mg/kg	

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 3 of 10

4. First aid measures *

4.1. Description of first aid measures

General information

Get medical advice/attention if you feel unwell. Immediately remove any contaminated clothing, shoes or stockings.

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:

After ingestion

Get medical advice/attention.

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.

5. Fire-fighting 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

Additional information

In case of fire: Wear self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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.

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 4 of 10

6.4. Reference to other sections

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

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 temperature between 4 -25 °C. Can polymerize with intense heat release.

Hints on joint storage

No special measures are necessary.

8. Exposure controls/personal protection *

8.1. Control parameters

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection

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.

9. Physical and chemical properties *

9.1. Information on basic physical and chemical properties

Physical state: Gel
Colour: colourless
Odour: aromatic

Changes in the physical state

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: not determined

Flash point: > 100 °C

Flammability

Solid/liquid: not applicable

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 5 of 10

pH-Value: not determined
Viscosity / dynamic: 200 * 1000 mPa·s
Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

The substance is not soluble in water.

Partition coefficient n-octanol/water: not determined
Vapour pressure: not determined
Density: 1,1 g/cm³
Relative vapour density: not determined

9.2. Other information

Other safety characteristics

Solid content: not determined
Evaporation rate: not determined

Further Information

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

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. |

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 6 of 10

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.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
72869-86-4	urethane dimethacrylate (UDMA)					
	oral	LD50	>2000 mg/kg	Rat	OECD 401	
	inhalation (4 h)	LC50	>5 mg/l			
	dust/mist					
	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.

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.

Further information

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

12. Ecological information *

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
72869-86-4	urethane dimethacrylate (UDMA)						
	Acute fish toxicity	LC50	10,1 mg/l	96 h	Danio rerio (zebrafish)	OECD 203	
	acrylic resin						
	Acute fish toxicity	LC50	4,95 mg/l	96 h			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)						
	Acute crustacea toxicity	EC50	3,53 mg/l	48 h	Daphnia		

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 7 of 10

12.2. Persistence and degradability The product has not been tested.

CAS No	Chemical name	Value	d	Source
	Method 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 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 uncontrolled discharge of product into the environment.
Do not allow to enter into surface water or drains.

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 - 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.

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 8 of 10

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 transport)

SV 375: These substances, when carried in single or combination packagings of a net quantity not exceeding 5 litres of liquids or a net mass not exceeding 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
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

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)
14.3. Transport hazard class(es):	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

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 9 of 10

Air transport (ICAO-TI/IATA-DGR)

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

Other applicable information (air transport)

A 197: These substances are not subject to other provisions of these Regulations when carried in single or combination packagings with a net quantity per single or inner packaging not exceeding 5L for liquids and a net weight not exceeding 5kg for substances, provided the packagings meet the general requirements of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	Yes
Danger releasing substance:	ACRYLIC RESIN

14.6. Special precautions for user No information available.

14.7. Maritime transport in bulk according to IMO instruments not applicable

15. Regulatory information *

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 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.

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/17/2022

picopreci plus glasklar

Page 10 of 10

16. Other information *

Changes

SECTION 2: Hazards identification SECTION 3: Composition/information on ingredients:
Matter of revision: change of Classification
SECTION 14: Transport information
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%

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.)

* Data compared to the previous version 1.50 altered.