

according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 1 of 11

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				
	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	A)	< 10 %		
	629-850-6				
	Acute Tox. 4, Skin Irrit. 2, Eye Dam H411	H302 H315 H318 H317			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)ph		< 1 %		
	278-355-8	015-203-00-X			
	Repr. 2, Skin Sens. 1B, Aquatic Ch	ronic 2; H361f H317 H411	•		

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



according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 3 of 11

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: LC5	i0 = > 5 mg/l (dusts or mists)	
1245638-61-2	629-850-6	2-Propenoic acid, reaction products with pentaerythritol (PETIA / PETTA)	< 10 %
	inhalation: LC5	i0 = > 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.



according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 4 of 11

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)	



according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 5 of 11

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 bw/day
Consumer DN	EL, long-term	inhalation	systemic	0,145 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,0833 mg/kg bw/day

PNEC values

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



according to Regulation (EC) No 1907/2006

picopreci plus bonder						
Revision date: 12.09.2023	Product code: 1352250	Page 6 of 1				
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	³ 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



according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 7 of 11

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



according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 8 of 11

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
80-62-6	methyl methacrylate							
	Acute fish toxicity	LC50 mg/l	> 79	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna (Big water flea)			
75980-60-8	Diphenyl(2,4,6-trimethylbe	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)						
	Acute fish toxicity	LC50	1,4 mg/l	96 h	Cyprinus carpio (Common Carp)	ECHA	OECD 203	
	Acute algae toxicity	ErC50 mg/l	>2,01	72 h	Daphnia magna (Big water flea)	ECHA	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202	
	Acute bacteria toxicity	(EC50 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 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 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 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 tran E2	sport)	
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

II



according to Regulation (EC) No 1907/2006

picopreci plus bonder				
Revision date: 12.09.2023	Pro	oduct code: 1352250	Page 10 of 11	
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 to 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

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.



according to Regulation (EC) No 1907/2006

picopreci plus bonder

Revision date: 12.09.2023

Product code: 1352250

Page 11 of 11

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.)