

Telefax: +49 6031 7283-29



Safety Data Sheet

according to Regulation (EC) No 1907/2006

picopreci plus

Revision date: 14.03.2018 Product code: 13522XX Page 1 of 9

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

1.1. Product identifier

picopreci plus

Further trade names

picopreci plus rosa picopreci plus zahnfarben picopreci plus rosa-opak

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 of the supplier of the safety data sheet

Manufacturer

Company name: Deltamed GmbH
Street: Raiffeisenstr. 8a
Place: D-61169 Friedberg
Telephone: +49 6031 7283-0

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: D-51688 Wipperfürth
Telephone: +49 2267 6580-0
Internet: picodent@picodent.de
Responsible Department: Mo.-Fr. 7.30 - 16.45 Uhr

1.4. Emergency telephone Giftinformationszentrum Universitätsklinikum Mainz

<u>number:</u> Telefon +49 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1B

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

acrylic resin

1,4 Butanediol dimethacrylate (1,4-BDDMA)

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

Urethane dimethacrylate (UDMA)

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 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				
	EC No	Index No	REACH No		
	Classification according to Regula	ation (EC) No. 1272/2008 [CL	P]		
72869-86-4	Urethane dimethacrylate (UDMA)			50 - 70 %	
	Skin Sens. 1, Aquatic Chronic 3;	H317 H412	·		
	acrylic resin				
	Skin Sens. 1B, Aquatic Chronic 2	; H317 H411	·		
2082-81-7	1,4 Butanediol dimethacrylate (1,4-BDDMA)				
	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.





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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





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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

Changes in the physical state

Melting point: not determined Initial boiling point and boiling range: not determined Flash point: $> 100 \, ^{\circ}\text{C} \, ^{\circ}\text{C}$

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined
Vapour pressure: not determined
Density: 1,1 g/cm³
Water solubility: The study does not need to be conducted

because the substance is known to be insoluble in water.





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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.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
72869-86-4	Urethane dimethacrylate	(UDMA)				
	oral	LD50 > mg/kg	>2000	Rat	OECD 401	
	acrylic resin					
	oral	LD50 > mg/kg	> 2000	Rat		
	dermal	LD50 > mg/kg	> 2000	Rat		
2082-81-7	1,4 Butanediol dimethacr	ylate (1,4-BDD	MA)			
	oral	LD50 > mg/kg	> 5000	Rat	OECD 401	
	dermal	LD50 > mg/kg	> 3000	Rabbit		
75980-60-8	Diphenyl(2,4,6-trimethylb	enzoyl)phosph	ine oxide (TPO)		
	oral	LD50 > mg/kg	> 5000	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



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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 10,1 mg/l	96 h Brachydanio rerio (zebra-fish)	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			

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





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Land transport (ADR/RID)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ACRYLIC RESIN)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification 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)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ACRYLIC RESIN)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ACRYLIC RESIN)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard 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)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ACRYLIC RESIN)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9

Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A97 A158 A197

30 kg G

Y964

Excepted quantity:

E1

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





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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.)



according to regulation (EU) No. 1907/2006

Rev. 2016-03

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

Information on the product

Trade name: picopreci plus Bonder

Company/undertaking identification:

Deltamed GmbH

Raiffeisenstraße 16 Telephone-No. +49 6031 72830 D-61169 Friedberg Fax-No. +49 6031 728329

Responsible Department:

picodent GmbH www.picodent.de

Lüdenscheider Str. 24-26 Telephone-No +49 2267 6580-0 D-51688 Wipperfürth Fax-No. +49 2267 6580-30

Emergeny telephone:

Giftinformationszentrum

Universitätsklinikum Mainz Telephone-No. +49 6031 19240

2. Hazards identification

Classification of the substance or mixture Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xi - Irritant

R phrases: Highly flammable.

Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

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

Hazardous to the aquatic environment:

NO. 1212/2006 [CLP

Hazard categories:
Flammable liquid:

Skin corrosion/irritation:

Serious eye damage/eye irritation:

Respiratory/skin sensitization:

Specific target organ toxicity - single exposure:

Flam. Liq. 2

Skin Irrit. 2

Eye Dam. 1

Skin Sens. 1

Specific target organ toxicity - single exposure:

STOT SE 3

Hazard Statements: Highly flammable liquid and vapour.

Causes skin irritation.

Aquatic Chronic 3

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

Label elements

Hazardous components which must be listed

on the label

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl

methacrylate

2-Propenoic acid, reaction products with pentaerythritol Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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Trade name: picopreci plus Bonder

Signal word: Danger

Pictograms: GHS02 GHS05 GHS07







Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye 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 smoking.

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.

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.

Other hazards No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No			
Index No REACH No 201-297-1 methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate 40 - 60 % 80-62-6 F - Highly flammable, Xi - Irritant R11-37/38-43 607-035-00-6 Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	EC No	Chemical name	Quantity
REACH No 201-297-1 methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate 40 - 60 % 80-62-6 F - Highly flammable, Xi - Irritant R11-37/38-43 607-035-00-6 Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	CAS No	Classification according to Directive 67/548/EEC	
80-62-6 F - Highly flammable, Xi - Irritant R11-37/38-43 607-035-00-6 Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 acrylic resin		Classification according to Regulation (EC) No. 1272/2008 [CLP]	
607-035-00-6 Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 acrylic resin 20 - 40 % Xi - Irritant R36 Eye Irrit. 2; H319 629-850-6 2-Propenoic acid, reaction products with pentaerythritol < 10 % 1245638-61-2 Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-38-41-43-51-53 Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411 2-Hydroxy-2-methylpropiophenone 1 - < 5 % 7473-98-5 Xn - Harmful R22 Acute Tox. 4; H302 278-355-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide < 1 % 75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53	201-297-1	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	40 - 60 %
Xi - Irritant R36 Eye Irrit. 2; H319 629-850-6 2-Propenoic acid, reaction products with pentaerythritol 245638-61-2 Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-38-41-43-51-53 Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411 2-Hydroxy-2-methylpropiophenone 7473-98-5 Xn - Harmful R22 Acute Tox. 4; H302 278-355-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53			
Eye Irrit. 2; H319 629-850-6 2-Propenoic acid, reaction products with pentaerythritol 7-1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol 7-1245638-61-2 7-1245638-6		acrylic resin	20 - 40 %
1245638-61-2 Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-38-41-43-51-53 Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411 2-Hydroxy-2-methylpropiophenone 1 - < 5 %			
Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411 2-Hydroxy-2-methylpropiophenone 7473-98-5 Xn - Harmful R22 Acute Tox. 4; H302 278-355-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53	629-850-6	2-Propenoic acid, reaction products with pentaerythritol	< 10 %
7473-98-5 Xn - Harmful R22 Acute Tox. 4; H302 278-355-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide < 1 % 75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53	1245638-61-2	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315	
Acute Tox. 4; H302 278-355-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide < 1 % 75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53		2-Hydroxy-2-methylpropiophenone	1 - < 5 %
75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53	7473-98-5		
	278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	< 1 %
		Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53 Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361 H317 H411	

Full text of R-, H- and EUH-phrases: see section 16.

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Trade name: picopreci plus Bonder

4. First aid measures

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.

Most important symptoms and effects,

both acute and delayed

Indication of any immediate medical attention

and special treatment needed

No information available.

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media Water, Full water jet

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

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.

6. Accidental release measures

Personal precautions, protective equipment

and emergency procedures

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.

Environmental precautions Do not allow uncontrolled discharge of product into the environment.

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Trade name: picopreci plus Bonder

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.

Reference to other sections Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling Provide adequate ventilation. Do not breathe gas/fumes/vapour/

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.

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.

Advice on storage compatibility

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.

Specific end use(s) dental use

8. Exposure controls/personal protection

Control parameters Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

Exposure controls

Appropriate engineering controls Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures 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.

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.













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9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: stinging

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

not determined

Initial boiling point and boiling range:

not determined

Methylmethacrylat

Flash point: 10 °C Methylmethacrylat

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: 430 °C Methylmethacrylat

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: (at 20 °C)

Density (at 20 °C):

38,7 hPa

Methylmethacrylat

0,94 g/cm³

Methylmethacrylat

Water solubility:

Solubility in other solvents

Partition coefficient:

Vapour density:

Evaporation rate:

insoluble

not determined

not determined

not determined

not determined

Other information

Solid content: not determined

10. Stability and reactivity

Reactivity Flammable, Ignition hazard.

Chemical stabilityThe product is stable under storage at normal ambient temperatures.

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.

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.

Incompatible materials Oxidising agent, Reducing agent., Heavy metals, Peroxide

Hazardous decomposition products

No known hazardous decomposition products.

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11. Toxicological information

Information on toxicological effects Acute toxicity

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

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
80-62-6	methyl 2-methylprop-2-enoate; m	ethyl 2-methyl	propenoate; meth	yl methacrylate	
	oral dermal	LD50 LD50	> 5000 mg/kg > 5000 mg/kg	Rat Rabbit	OECD 410
	inhalative (4 h) vapour	LC50	78 mg/l	Rat	RTECS
1245638-61-2	2-Propenoic acid, reaction produc	cts with pentae	erythritol		
	oral	ATE	500 mg/kg		
7473-98-5	2-Hydroxy-2-methylpropiophenor	ne			
	oral dermal	LD50 LD50	1694 mg/kg 6929 mg/kg	Rat Rat	OECD 423 OECD 402
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)p	hosphine oxide	е		
	oral	LD50	> 5000 mg/kg	Rat	RTECS

Irritation and corrosivity Causes skin irritation.

Causes serious eye damage.

Sensitising effects May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate; methyl methacrylate), (2-Propenoic acid,

reaction products with pentaerythritol),

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

STOT-single exposure May cause respiratory irritation. (methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate; methyl methacrylate)

Severe effects after repeated or

prolonged exposure

Carcinogenic/mutagenic/toxic effects

for reproduction
Aspiration hazard

Additional information on tests

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

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. This mixture is classified as hazardous according to 1999/45/EC.











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12. Ecological information

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

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
80-62-6	methyl 2-methylprop-2-eno	ate; methy	l 2-methylpro	penoate; ı	methyl methacrylate	
	Acute fish toxicity	LC50	> 79 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	> 110 mg/l	72 h	Selenastrum capricornutum	OECD 201
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
7473-98-5	2-Hydroxy-2-methylpropiop	henone				
	Acute algae toxicity	ErC50	1,95 mg/l	72 h	Desmodesmus subspicatus.	OECD 201
	Acute crustacea toxicity	EC50	> 119 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
75980-60-8	Diphenyl(2.4.6-trimethylben	zovl)phosr	ohine oxide			

3,53 mg/l

Persistence and degradability The product has not been tested.

EC50

Acute crustacea toxicity

Bioaccumulative potential The product has not been tested.

Mobility in soil The product has not been tested.

Results of PBT and vPvB assessment The product has not been tested.

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.

48 h

Daphnia

13. Disposal considerations

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. Do not allow to enter into soil/subsoil. 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

Classified as hazardous waste.

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Trade name: picopreci plus Bonder

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

Classified as hazardous waste.

Contaminated packaging Non-contaminated packages may be recycled. Handle contaminated

packages in the same way as the substance itself.

14. Transport information

Land transport (ADR/RID)

UN 1247

UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es): П Packing group: Hazard label: 3 Classification code: F1 Limited quantity: 1 L Transport category: Hazard No: 339 Tunnel restriction code: D/E Other applicable information (land transport) E2

Inland waterways transport (ADN)

UN 1247

UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

Packing group:

Hazard label:

Classification code:

Limited quantity:

3

Classification code:

1 L

Other applicable information

(inland waterways transport) E2

Marine transport (IMDG)

UN number: UN 1247

UN proper shipping name:METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

Packing group:

Hazard label:

Special Provisions:

Limited quantity:

EmS:

Other applicable information (marine transport)

3

1

L

F-E, S-D

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Trade name: picopreci plus Bonder

Air transport (ICAO)

UN 1247

UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

Other applicable information (air transport) Passenger-LQ: Y341

E2

Special precautions for userNo information available.

Transport in bulk according to Annex II

of MARPOL73/78 and the IBC Code not applicable

15. Regulatory information

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

EU regulatory information

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 contaminating class (D): 3 - highly water contaminating

Chemical safety assessment Chemical safety assessments for substances in this mixture were not

carried out.

16. Other 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%









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Trade name: picopreci plus Bonder

Relevant R-phrases (Number and full text)

11	Highly flammable.
22	Harmful if swallowed.
36	Irritating to eyes.

37/38 Irritating to respiratory system and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

62 Possible risk of impaired fertility.

Relevant H- and EUH-phrases (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

H361 Suspected of damaging fertility or the unborn child.
 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.







