

according to regulation (EU) No. 1907/2006

Printing date: 11/18/2016	picobloc gel	Page 1 of 8
1. Identification of the substace/prepara	ation and of the company/undertaking	
1.1 Information on the product Trade name:	picobloc gel	
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 Manufacturer/Supplier: Company name: Street: City: Telephone: E-Mail: Internet: Department for information: 	sheet picodent GmbH Lüdenscheider Str. 24-26 D-51688 Wipperfürth +49 2267 6580-0 picodent@picodent.de www.picodent.de picodent GmbH Fax-No. +49 2267 6580-31 Telephone-No. +49 2267 6580-0	
1.4 Emergency contact number: (07.30 am - 4.45 pm)	Telephone-No. +49 2267 6580-0 Telephone-No. +49 171 6126850	

2. Hazards identification

2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008 Hazard categories: Respiratory or skin sensitisation: Hazardous to the aquatic environment: Hazard Statements:

Skin Sens. 1 Aquatic Chronic 3 May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

() sicherheit

2.2. Label elements Regulation (EC) No. 1272/2008 Hazard components for labelling

Urethane dimethacrylate (UDMA) acrylic resin

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

Signal word:

Pictograms:

Warning





GB

Revision: 11/18/2016

() innovation

Telefon: 0 22 67 - 65 80-0 • www.picodent.de

() verantwortung



according to regulation (EU) No. 1907/2006

Printing dates	11/18/2016	picobloc gel	Page 2 of 8
Hazard state H317 H412	ements May cause an allergic skin reaction. Harmful to aquatic life with long lasting	effects.	
Precautiona	ry statements		
P280	Wear protective gloves/protective cloth	ning/eye protection.	
P302+P350	IF ON SKIN: Gently wash with plenty o	f soap and water.	
P333+P313	If skin irritation or rash occurs: Get me	dical 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.

3. Composition/information on ingredients

3.2. Mixtures Chemical characterization

Mixture of acrylic resins, fillers and initiators.

Hazardous components

4. First aid measures

CAS No	Chemical name			Quantity
	EC No In Classification according to Rec	ndex No gulation (EC) No. 1272/2008 [0	REACH No CLP1	
72869-86-4	Urethane dimethacrylate (UDM			60 - 80 %
	Skin Sens. 1, Aquatic Chronic	· · · · · · · · · · · · · · · · · · ·		
	acrylic resin			10 - 30 %
	Skin Sens. 1B, Aquatic Chronic	c 2; H317 H411		
75980-60-8	Diphenyl(2,4,6-trimethylbenzoy	l)phosphine oxide (TPO)		< 1 %
		15-203-00-X		
	Repr. 2, Skin Sens. 1, Aquatic (Chronic 2; H361 H317 H411		

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

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.
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.

Revisions-No.: 1.2

Oqualität **O**verantwortung

GB

() sicherheit

Revision: 11/18/2016

() innovation



according to regulation (EU) No. 1907/2006

Printing date: 11/18/2016	picobloc gel	Page 3 of 8
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	on Treat symptomatically.	
5. Fire-fighting measures		
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	Foam. Extinguishing powder Carbon dioxide Full water jet	
5.2. Special hazards arising from the substance or mixture	In case of fire may be liberated: Carbon mono Hazardous decomposition products	xide. Carbon dioxide
5.3. Advice for firefighters	In case of fire: Wear self-contained breathing a	pparatus.
Additional information	Suppress gases/vapours/mists with water spra contaminated fire extinguishing water separate Do not allow entering drains or surface water.	
6. Accidental release measures		
6.1. Personal precautions, protective equipment Provide adequate ventilation. Do not breathe gas/fu clothes. Use personal protection equipment.		s and
6.2. Environmental precautions	Do not allow to enter into surface water or drai	ns.
6.3. Methods and material for containment and cleaning up	Absorb with liquid-binding material (e.g. sand, acid- or universal binding agents). Treat the rec 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	
7. Handling and storage		
7.1. Precautions for safe handling Advice on safe handling Advice on protection against fire and explosion	Provide good room ventilation. Keep away from sources of ignition No smol	king.
7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels	Protect from the action of light. Keep only in th a temperature between 4 -25 °C. Can polymer release.	
Advice on storage compatibility	No special measures are necessary.	
No.: 1.2	GB	Revision: 11/18/2016



() verantwortung

() innovation

Telefon: 0 22 67 - 65 80-0 • www.picodent.de

() sicherheit



according to regulation (EU) No. 1907/2006

Printing date: 11/18/2016	picobloc gel	Page 4 of 8
8. Exposure controls/personal protection	1	
8.1. Control parameters		
8.2. Exposure controls		
	Avoid contact with skin, eyes and clothes. Draw up and protection programme. Wash hands and face before bre work and take a shower if necessary. When using do not	eaks and after
Eye/face protection	tightly fitting goggles	
	Gloves should be replaced regularly, especially after ext contact with the product. For each work-place a suitabl has to be selected.	
Skin protection	Wear suitable protective clothing.	

9. Physical and chemical properties

9.1. Information on basic physical and chemical propert	ies
---	-----

9.1. Information on basic physical and chemical	properties	
Physical state:	Gel	
Colour:	red	
Odour:	hardly noticeable	
		Test method
pH-Value:	not determined	
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	> 100 °C	
Flash point:	> 100 °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 (at 20 °C):	1,1 g/cm ³	
Water solubility:	insoluble	
Solubility in other solvents		
The substance is not soluble in water.		
Partition coefficient:	not determined	
Viscosity / dynamic: (at 20 °C)	500000 mPa·s	
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.

() verantwortung

Revisions-No.: 1.2

()qualität

GB

() sicherheit

Revision: 11/18/2016

() innovation

Telefon: 0 22 67 - 65 80-0 • www.picodent.de



according to regulation (EU) No. 1907/2006

Printing date: 11/18/2016	picobloc gel	Page 5 of 8
10. Stability and reactivity		
10.1. Reactivity	No hazardous reaction when handled and stored accord provisions.	ing to
10.2. Chemical stability	The product is stable under storage at normal ambient to	emperatures.
10.3. Possibility of hazardous reactions	Polymerization with heat evolution may occur in the pres radical forming substances (e.g. peroxides), reducing sul and/or heavy metal ions.	
10.4. Conditions to avoid	Protect from the action of light. Keep only in the original temperature between 4 -25 °C. Can polymerize with interrelease.	
10.5. Incompatible materials	Oxidising agent, Reducing agent, Heavy metals, acids, A	Ikali (lye)
10.6. Hazardous decomposition products	No known hazardous decomposition products.	

11. Toxicological information

11.1. Information on toxicological effects Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	
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		
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)pho	osphine oxide (TPO)			
oral LD50 > 5000 mg/kg Rat		Rat	RTECS		
Irritation and corrosivity Sensitising effects		Based on available data, the classification criteria are not met.			
		May cause an allergic skin reaction. (Urethane dimethacrylate			
		(UDMA)); (acrylic resin);			
		(Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO))			
		Possible sensitization in case of persons suffering from			
hypersensitivity.					
Carcinogeni	c/mutagenic/toxic effects for				
reproduction	1	Based on available data, the classification criteria are not met.			
STOT-single exposure STOT-repeated exposure Aspiration hazard Further information		Based on available data, t	he classification crite	ria are not met.	
		Based on available data, th	ne classification criter	ria are not met.	
		Based on available data, t			
		Product has not been test			
Further into	mation				
Further Infor	mation	properties of the compone			

Revisions-No.: 1.2

()qualität

() verantwortung

() sicherheit

Revision: 11/18/2016

() innovation

Telefon: 0 22 67 - 65 80-0 • www.picodent.de



according to regulation (EU) No. 1907/2006

Printing date:	11/18/2016	picobloc gel			Page 6 of 8
12. Ecolog	ical information				
12.1. Toxicity	,				
CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
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)pho				
	Acute crustacea toxicity	EC50 3,53 mg/l	48 h	Daphnia	
12.2. Persist	tence and degradability	The product has	not been te	sted.	
CAS No	Chemical name				
	Method Evaluation	Value	d	Source	
72869-86-4	Urethane dimethacrylate (UDMA)				
	Biodegradation	22 %	28	OECD 301 F	
12.3. Bioacc	cumulative potential	The product has	not been te	sted.	
12.4. Mobilit	ty in soil	The product has	not been te	sted.	
12.5. Result	s of PBT and vPvB assessment	The product has	not been te	sted.	
12.6. Other a Further infor	adverse effects mation		ontrolled dis	scharge of product into th face water or drains.	e environment.

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

Overantwortung

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.

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.



GB

() sicherheit

Revision: 11/18/2016

() innovation

Telefon: 0 22 67 - 65 80-0 • www.picodent.de



according to regulation (EU) No. 1907/2006

Printing date: 11/18/2016	picobloc gel	Page 7 of 8
Contaminated packaging	This material and its container must be disposed of as har waste. Handle contaminated packages in the same way a substance itself.	
14. Transport information		
Land transport (ADR/RID) Other applicable information (land transport)	No dangerous good in sense of these transport regulation	IS.
Inland waterways transport (ADN) Other applicable information (inland waterways transport)	No dangerous good in sense of these transport regulation	IS.
Marine transport (IMDG) Other applicable information (marine transport)	No dangerous good in sense of these transport regulation	IS.
Air transport (ICAO-TI/IATA-DGR) Other applicable information (air transport)	No dangerous good in sense of these transport regulation	IS.
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	
15. Regulatory information		
	s/legislation specific for the substance or mixture	
National regulatory information Water contaminating class (D):	1 - slightly water contaminating	
15.2. Chemical safety assessment	For this mixture a chemical safety assessment has been of	carried out.
16. Other information		

Changes Matter of revision: change of Classification



() sicherheit

Revision: 11/18/2016

() verantwortung



according to regulation (EU) No. 1907/2006

Printing date: 11/18/2016

picobloc gel

Page 8 of 8

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.
- 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.

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



GB

() sicherheit

Revision: 11/18/2016

() innovation

Overantwortung