

according to Regulation (EC) No 1907/2006

OmniWHITEsmile Blocker

Revision date: 08.01.2024

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

1.1. Product identifier

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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

Company name: Street: Place: Telephone: E-mail: Internet:	WHITEsmile GmbH Weinheimer Straße 6 69488 Birkenau +49 62 01 / 8 43 21-90 info@whitesmile.com https://www.whitesmile.com	Telefax: +49 62 01 / 8 43 21-99
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SECTION 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:

Pictograms:



Warning

Hazard statements

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

Precautionary statements

ooddilloniary oldionno	
P261	Avoid breathing dust/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local regulation.

Special labelling of certain mixtures

Restricted to professional users.



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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, fillers and initiators.

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation	n (EC) No 1272/2008)			
72869-86-4	urethane dimethacrylate	(UDMA)		60 - 80 %	
	Skin Sens. 1B, Aquatic C	Chronic 2; H317 H411			
	acrylic resin			10 - 30 %	
	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. 1B, Aquatic Chronic 2; H361f H317 H411				
10287-53-3	Ethyl-4-dimethylaminobe	nzoat		< 1 %	
	233-634-3				
	Repr. 1B, Aquatic Chronic 2; H360 H411				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity				
	Specific Con	c. Limits, M-factors and ATE					
72869-86-4		urethane dimethacrylate (UDMA)	60 - 80 %				
	inhalation: L0 mg/kg	C50 = >5 mg/l (dusts or mists);					
		acrylic resin	10 - 30 %				
	dermal: LD50	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg					
2082-81-7		1,4 Butanediol dimethacrylate (1,4-BDDMA)	< 1 %				
	dermal: LD50	0 = > 3000 mg/kg; oral: LD50 = > 5000 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						
10287-53-3	233-634-3	Ethyl-4-dimethylaminobenzoat	< 1 %				
	dermal: LD50	0 = > 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

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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.

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

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.

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

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Advice on safe handling

Provide good room ventilation.

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

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent					
DNEL type		Exposure route	Effect	Value		
72869-86-4	urethane dimethacrylate (UDMA)					
Worker DNEL,	long-term	dermal	systemic	1,3 mg/kg bw/day		
Worker DNEL,	long-term	inhalation	systemic	3,3 mg/m³		
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)					
Worker DNEL, long-term		dermal	systemic	0,233 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	0,145 mg/m ³		
Consumer DNEL, long-term		oral	systemic	0,0833 mg/kg bw/day		

PNEC values

CAS No	Name of agent	
Environmenta	al compartment	Value
72869-86-4	urethane dimethacrylate (UDMA)	
Freshwater		0,01 mg/l
Marine water		0,001 mg/l
Freshwater se	ediment	4,56 mg/kg
Marine sediment		0,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,61 mg/l
Soil		0,91 mg/kg
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	
Marine water		0,00014 mg/l
Freshwater sediment		0,115 mg/kg
Marine sediment		0,0115 mg/kg
Soil		0,0222 mg/kg

8.2. Exposure controls

Individual protection measures, such as personal protective equipment



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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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and che		
Physical state:	Gel	
Colour:	red	
Odour:	hardly noticeable	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		> 100 °C
boiling range:		not determined
Flammability: Lower explosion limits:		not determined
•		
Upper explosion limits:		not determined
Flash point:		> 100 °C
Auto-ignition temperature:		not determined not determined
Decomposition temperature:		
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1,1 g/cm ³ not determined
Relative vapour density: Particle characteristics:		
		not applicable
9.2. Other information		
Information with regard to physical haz	ard classes	
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Other safety characteristics		
Evaporation rate:		not determined
Solid content:		not determined
Viscosity / dynamic:		500000 mPa⋅s
(at 20 °C)		
Further Information		
— • • • • • • • • • • • • • • • • • • •		

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

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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

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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 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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
72869-86-4	urethane dimethacrylat	e (UDMA)						
	oral	LD50 mg/kg	>5000	Rat	OECD 401			
	dermal	LD50 mg/kg	>2000	Rat	OECD 402			
	inhalation (4 h) dust/mist	LC50	>5 mg/l					
	acrylic resin							
	oral	LD50 mg/kg	> 2000	Rat	OECD 423			
	dermal	LD50 mg/kg	> 2000	Rat	OECD 402			
2082-81-7	1,4 Butanediol dimetha	1,4 Butanediol dimethacrylate (1,4-BDDMA)						
	oral	LD50 mg/kg	> 5000	Rat	OECD 401			
	dermal	LD50 mg/kg	> 3000	Rabbit				
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)							
	oral	LD50 mg/kg	> 5000	Rat	ECHA	OECD 401		
	dermal	LD50 mg/kg	>2000	Rat	ECHA			
10287-53-3	Ethyl-4-dimethylaminobenzoat							
	oral	LD50 mg/kg	> 5000	Rat				
	dermal	LD50 mg/kg	> 2000	Rat				



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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)) 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.

11.2. Information on other hazards

Further information

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

SECTION 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 mg/l	10,1	96 h	Danio rerio (zebrafish)	OECD 203		
	Acute algae toxicity	ErC50 mg/l	>0,68	72 h	Desmodesmus subspicatus	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	>1,2	48 h	Daphnia magna (Big water flea)			
	acrylic resin							
	Acute fish toxicity	LC50 mg/l	1,65	96 h	Danio rerio (zebrafish)	OECD 203		
	Acute algae toxicity	ErC50	1,6 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	2,36	48 h	Daphnia magna (Big water flea)	OECD 202		
75980-60-8	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.



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CAS No Chemical name Method Value d Source Evaluation 72869-86-4 urethane dimethacrylate (UDMA) Biodegradation 22 % 28 OECD 301 F acrylic resin **OECD 301 F** 27 % 56 Not readily biodegradable (according to OECD criteria) 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 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

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 - used product

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

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same way as the substance itself.

SECTION 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:	-
litres of liquids or a net mass not exce	port) ied in single or combination packagings of a net quantity not exceeding 5 eding 5 kg of solids per single or combination packaging, are not subject ed the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and
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

Excepted quantity: Marine transport (IMDG)

Limited quantity:

Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(ACRYLIC RESIN)
<u>14.3. Transport hazard class(es):</u>	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
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 A215
Limited quantity Passenger:	30 kg G

5 L

E1

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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 75

National regulatory information

Water hazard class (D):

2 - obviously hazardous to water

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,5,9,14,16. reason of revision: reclassification ingredients by supplier. Matter of revision: Regulation (EU) No. 2020/878, Annex II.



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Abbreviations and acronyms

Skin Sens: Skin sensitisation Repr: Reproductive toxicity Aquatic Chronic: Chronic aquatic hazard 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.
H360	May damage fertility or the unborn child.
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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)