

# Safety Data Sheet

according to regulation (EU) No. 1907/2006

Rev. 2016-03

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

### Information on the product

**Trade name: Majesthetik-Laseal**

### Company/undertaking identification:

picodent GmbH  
Lüdenscheider Str. 24-26  
D-51688 Wipperfürth

www.picodent.de  
Telephone-No. +49 2267 6580-0  
Fax-No. +49 2267 6580-30

### Responsible Department:

picodent GmbH  
Lüdenscheider Str. 24-26  
D-51688 Wipperfürth

www.picodent.de  
Telephone-No. +49 2267 6580-0  
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### Emergency telephone:

picodent GmbH, Wipperfürth

Telephone-No. +49 2267 6580-0

## 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 respiratory system and skin.

Risk of serious damage to eyes.

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]

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

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## Label elements

**Hazardous components which must be listed on the label**

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

Signal word:

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.  
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.

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## 3. Composition/information on ingredients

### Mixtures

#### Chemical characterization

Mixture of acrylic resins and initiators.

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
201-297-1	methyl methacrylate	20 - 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	
	acrylic resin	< 25 %
	Xi - Irritant R36/38	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
629-850-6	2-Propenoic acid, reaction products with pentaerythritol	< 20 %
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	
278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	< 3 %
75980-60-8	Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53	
015-203-00-X	Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361 H317 H411	

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

## 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

No information available.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), 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.

**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/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.

**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.

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**Advice on storage compatibility**  
**Further information on storage conditions**

Do not store together with: Oxidising agent.  
 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/m <sup>3</sup>	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	
<b>Changes in the physical state</b>		
Melting point:	not determined	
Initial boiling point and boiling range:	100 °C	
Flash point:	10 °C	DIN 51755
<b>Flammability</b>		
Solid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	2,1	
Upper explosion limits:	12,5	
Ignition temperature:	430 °C	DIN 51794
<b>Auto-ignition temperature</b>		
Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature:	not determined	
Water solubility:	insoluble	
<b>Solubility in other solvents</b>	not determined	
Partition coefficient:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
<b>Other information</b>		
Solid content:	not determined	

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

## 10. Stability and reactivity

<b>Reactivity</b>	Flammable, Ignition hazard.
<b>Chemical stability</b>	The product is stable under storage at normal ambient temperatures.
<b>Possibility of hazardous reactions</b>	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.
<b>Conditions to avoid</b>	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.
<b>Incompatible materials</b>	Oxidising agent, Reducing agent., Heavy metals, Peroxide
<b>Hazardous decomposition products</b>	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 methacrylate	oral	LD50	> 5000 mg/kg	Rat	
		dermal	LD50	> 5000 mg/kg	Rat	
		inhalative (4 h) vapour	LC50	78 mg/l	RTECS	
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol	oral	ATE	500 mg/kg		
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	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 methacrylate),  
(2-Propenoic acid, reaction products with pentaerythritol),  
(Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)  
May cause respiratory irritation. (methyl methacrylate)

#### STOT-single exposure

#### Severe effects after repeated or prolonged exposure

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

This mixture is classified as hazardous according to 1999/45/EC.

## 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 methacrylate	Acute fish toxicity	LC50	> 79 mg/l	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-trimethylbenzoyl)phosphine oxide	Acute crustacea toxicity	EC50	3,53 mg/l	48 h	Daphnia	

#### Persistence and degradability

The product has not been tested.

#### 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.

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## 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.

#### 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)

<b>UN number:</b>	UN 1247
<b>UN proper shipping name:</b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	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 transport)** E2

### Inland waterways transport (ADN)

<b>UN number:</b>	UN 1247
<b>UN proper shipping name:</b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L

**Other applicable information (inland waterways transport)** E2

### Marine transport (IMDG)

<b>UN number:</b>	UN 1247
<b>UN proper shipping name:</b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II
Hazard label:	3
Special Provisions:	-
Limited quantity:	1 L
EmS:	F-E, S-D

**Other applicable information (marine transport)** E2



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## Air transport (ICAO)

<b>UN number:</b>	UN 1247
<b>UN proper shipping name:</b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II
<b>Hazard label:</b>	3
<b>Limited quantity Passenger:</b>	1 L
<b>IATA-packing instructions - Passenger:</b>	353
<b>IATA-max. quantity - Passenger:</b>	5 L
<b>IATA-packing instructions - Cargo:</b>	364
<b>IATA-max. quantity - Cargo:</b>	60 L

**Other applicable information (air transport)** E2  
Passenger-LQ: Y341

**Special precautions for user** No 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):** 2 - 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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## Relevant R-phrases (Number and full text)

11	Highly flammable.
22	Harmful if swallowed.
36/38	Irritating to eyes and skin.
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.

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