

MATERIAL SAFETY DATA SHEET
According to (EG) 1907/2006 (REACH)
SILADENT Dr. Böhme & Schöps GmbH



Date of printing: 15.09.2015

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SilaPress liquid

1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name:

SilaPress liquid

Use / Purpose

Denture Base Resin, self-curing acrylic, liquid component of the 2-component acrylic system based on methyl methacrylate (powder and liquid), for the purpose of crafting individual dentures.

Company / Manufacturer:

SILADENT Dr. Böhme & Schöps GmbH
Im Klei 26
DE - 38644 Goslar
Tel.: +49 (0) 53 21 / 37 79 – 0
Fax: +49 (0) 53 21 / 38 96 32
info@siladent.de - www.siladent.de

2. Hazards Identification:

2.1 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.
May cause sensitisation by skin contact.

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

Hazard categories:

Flammable liquid:

Flam. Liq. 2

Skin corrosion/irritation:

Skin Irrit. 2

Respiratory/skin sensitization:

Skin Sens. 1

Specific target organ toxicity - single exposure:

STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

2.2 Label elements:

Hazardous components which must be listed on the label:

Methyl methacrylate

Signal word:

Danger

Pictograms:

GHS02-GHS07



Hazard statements:

H225

Highly flammable liquid and vapour.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H335

May cause respiratory irritation.

Precautionary statements:

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240

Ground/bond container and receiving equipment.

P243

Take precautionary measures against static discharge.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

2.3 Other hazards

No information available.

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3. Composition / Information on Ingredients:

3.1 Mixtures

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	95 - < 100 %
80-62-6	F - Highly flammable, Xi - Irritant R11-37/38-43	
	Flam. Liq. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H224 H315 H317 H335	
01-2119452498-28		

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

4. First aid measures:

4.1 Description of first aid measures:

General information:

Remove contaminated, saturated clothing immediately. If skin irritation or rash occurs get medical advice/attention. If eye irritation persists get medical advice/attention.

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 polyethylene glycol, followed by plenty of water. 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:

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed:

No information available.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. Fire Fighting measures:

5.1 Extinguishing media:

Suitable extinguishing media:

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media:

Water.

5.2 Special hazards arising from the substance or mixture:

Flammable. Vapours can form explosive mixtures with air.

5.3 Advice for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information:

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures:

6.1 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.

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- 6.2 Environmental precautions: Do not allow uncontrolled discharge of product into the environment. Danger of explosion
- 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

7. Handling and Storage:

- 7.1 Precautions for safe handling:
 Advice on safe handling: If handled uncovered, arrangements with local exhaust ventilation have to be used. 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.
- 7.2 Conditions for safe storage, including any incompatibilities:
 Requirements for storage rooms and vessels: Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Advice on storage compatibility: Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.
- 7.3 Specific end use(s): Dental prosthesis.

8. Exposure controls / Personal protection:

8.1 Control parameters

Exposure limits (EH40)

CAS No	Substance	p p m	mg/m ³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50100	208 416		TWA (8 h) STEL (15 min)	WEL WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
80-62-6	Methyl methacrylate			
	Worker DNEL, long-term	inhalation		208 mg/m ³
	Worker DNEL, long-term	dermal		17 mg/kg bw/day

- 8.2 Exposure controls:
 Appropriate engineering controls: If handled uncovered, arrangements with local exhaust ventilation have to be used. 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.
 Eye/face protection: When using do not eat or drink.
 Wear eye/face protection.

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Hand protection: When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection: Flame-retardant protective clothing. Wear anti-static footwear and clothing.

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties:

9.1	Information on basic physical and chemical properties	
	Physical state:	liquid
	Colour:	colourless
	Odour:	characteristic
	pH-Value:	not determined
	Changes in the physical state:	
	Melting point:	-48 °C
	Initial boiling point and boiling range:	100,5 °C
	Flash point:	10 °C
	Flammability	
	Solid:	not applicable
	Gas:	not applicable
	Lower explosion limits:	2,1 vol. %
	Upper explosion limits:	12,5 vol. %
	Ignition temperature:	421 °C
	Auto-ignition temperature:	
	Solid:	not applicable
	Gas:	not applicable
	Decomposition temperature:	not determined
	Oxidizing properties	Not oxidizing.
	Vapour pressure:	
	(at 20 °C)	36 hPa
	Density (at 15,5 °C):	0,949 g/cm ³
	Water solubility:	
	(at 20 °C)	12,5 g/L
	Solubility in other solvents	not determined
	Partition coefficient:	1,38
	Viscosity / dynamic (at 20 °C):	
		0,53 mPa·s
	Vapour density (at 20 °C):	3,5
	Evaporation rate:	not determined
9.2	Other information	
	Solid content:	not determined

10. Stability and Reactivity:

10.1	Reactivity:	Flammable, Ignition hazard.
10.2	Chemical stability:	The product is stable under storage at normal ambient temperatures.
10.3	Possibility of hazardous reactions:	No known hazardous reactions.
10.4	Conditions to avoid:	Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.
10.5	Incompatible materials:	No information available.
10.6	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.
 ATEmix tested

	Dose	Species	Source
LD50, oral	7870 mg/kg	Rat	
LD50, dermal	> 5000 mg/kg	Rabbit	
LC50, inhalative (vapour) (4h)	78 mg/l	Rat	

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
80-62-6	Methyl methacrylate				
	oral	LD50	>5000 mg/kg	Rat	OECD 401
	dermal	LD50	>5000 mg/kg	Rabbit	
	inhalative vapour	LC50	29,8 mg/l	Rat	

Irritation and corrosivity: Causes skin irritation.
 Sensitising effects: May cause an allergic skin reaction. (Methyl methacrylate)
 STOT-single exposure: May cause respiratory irritation. (Methyl methacrylate)
 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 regulation (EC) No. 1272/2008 [CLP].

12. Ecological Information:

Information on elimination (persistence degradability)

12.1 Toxicity Acute (short-term) fish toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
80-62-6	Methyl methacrylate					
	Acute fish toxicity	LC50	> 79mg/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			48 h	Daphnia magna (Big water flea)	OECD 202
	Crustacea toxicity	NOEC	37 mg/l	21 d	Daphnia magna (Big water flea)	OECD 202

12.2 Persistence and degradability: Biodegradable.
 12.3 Bioaccumulative potential: On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-62-6	Methyl methacrylate	1,38

12.4 Mobility in soil: Mobility in soil: No adsorption in soil or sediment.
 12.5 Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
 12.6 Other adverse effects: No information available.
 Further information: Avoid release to the environment.

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13. Disposal Considerations:

Waste treatment methods:

Advice on disposal:

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 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:

14.1 Land transport (ADR/RID):

UN number:

UN 1247

UN proper shipping name:

METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3

Classification code:

F1

Limited quantity:

1 L

Transport category:

2

Hazard No:

339

Tunnel restriction code:

D/E

Other applicable information (land transport)

E2

14.2 Inland waterways transport (ADN)

UN number:

UN 1247

UN proper shipping name:

METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3

Classification code:

F1

Limited quantity:

1 L

Other applicable information (inland waterways transport)

E2

14.3 Marine transport (IMDG)

UN number:

UN 1247

UN proper shipping name:

METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3

Special Provisions:

-

Limited quantity:

1 L

EmS:

F-E, S-D

Other applicable information (marine transport)

E2

14.4 Air transport (ICAO)

UN number:

UN 1247

UN proper shipping name:

METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3

Limited quantity Passenger:

1 L

IATA-packing instructions - Passenger:

353

IATA-max. quantity - Passenger:

5 L

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IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L
Other applicable information (air transport) E2
Passenger-LQ: Y341

- 14.5 Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no
- 14.6 Special precautions for user
Warning: Combustible liquids.
- 14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code not applicable

15. Regulatory information:

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information
Additional information To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC
National regulatory information
Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D): 1 - slightly water contaminating
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.
- 15.2 Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

- 16.1 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 R-phrases (Number and full text)
11 Highly flammable.
37/38 Irritating to respiratory system and skin.
43 May cause sensitisation by skin contact.
Relevant H- and EUH-phrases (Number and full text)
H224 Extremely flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
- 16.2 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.