

# Material Safety Data Sheet according to (EC) 1907/2006



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**SD-COMPOSITE Primer**

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## SECTION 1: Identification of the substance/preparation and of the company/undertaking

### 1.1. Product identifier

Name of product: SD-COMPOSITE Primer

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Adhesive

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer / distributor

SCHEU DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

eMail: [service@SCHEU-DENTAL.com](mailto:service@SCHEU-DENTAL.com)

Internet: [www.SCHEU-DENTAL.com](http://www.SCHEU-DENTAL.com)

**1.4. Emergency telephone number:** +49 (2374) 9288-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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

Flam. Liq. 2 H225; Skin Irrit. 2 H315; Skin Sens. 1 H317; STOT SE 3 H335

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

**Signal word:** Danger

**Hazard Pictograms:** GHS02 GHS07



#### Hazard-determining components of labelling:

methyl methacrylate

#### 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/sparks/open flames/hot surfaces. – No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

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	water/shower.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Hazardous components

EC-No..	Chemical name	Quantity
CAS-No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Index-No.		
REACH-No.		
201-297-1	methyl methacrylate	50 – 75 %
80-62-6	Flam. Liq. 2, H225;  Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
205-521-9	n-Hexylmethacrylat	2,5 - 10 %
142-09-6	Skin Irrit. 2, Eye Irrit. 2, H319 H335	

#### Additional information

For the wording of the listed H-phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- After inhalation:** Supply fresh air and to be sure call for a doctor.
- After contact with skin:** Wash immediately with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After contact with eyes:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- After ingestion:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide, Fire-extinguishing powder, Foam, Water spray

#### **Unsuitable extinguishing media**

Water with full jet.

### 5.2. Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3. Advice for firefighters

#### **Special protective equipment for fire fighters:**

No special measures required.

#### **Additional information**

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.

### 6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

### 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**

Keep receptacles tightly sealed. Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

#### **Advice on protection against fire and explosion**

Fumes can combine with air to form an explosive mixture. Keep ignition sources away – Do not smoke. Protect against electrostatic charges.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage:**

##### **Requirements for storage rooms and vessels**

Storage between 10 °C and 25 °C

##### **Information about storage in one common storage facility:**

Store away from foodstuffs.

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## Further information on storage conditions

Protect from exposure to the light. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

## Storage class:

Highly flammable

## 7.3. Specific end use(s)

No further relevant information available.

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## SECTION 8: Exposure controls / personal protection

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### Additional information about design of technical facilities.

No further data ; see item 7.

### 8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:	
80-62-6 methyl methacrylate	
WEL	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 208 mg/m <sup>3</sup> , 50 ppm

### Additional information:

The lists valid during the making were used as basis.

### 8.2. Exposure controls

#### Personal protective equipment:

#### Protective and hygiene measures:

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

#### Respiratory protection

Not necessary if room is well-ventilated. Use suitable respiratory protective device when high concentrations are present. Short term filter device: Filter AX

#### Hand protection

Protective gloves

#### Material of gloves

Butyl rubber, BR

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye/face protection

Safety glasses

#### Limitation and supervision of exposure into the environment

No special precautions are necessary if used correctly.

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## SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

#### General Information

Physical state:	Fluid
Colour:	Clear
Odour:	Ester-like
pH-value:	Not determined

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<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	101 °C
<b>Flash point:</b>	10 °C
<b>Ignition temperature:</b>	430 °C
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Lower explosion limit:</b>	2.1 Vol %
<b>Upper explosion limit:</b>	12.5 Vol %
<b>Vapour pressure:</b>	47 hPa
<b>Density:</b>	Not determined
<b>Water solubility:</b>	Not miscible or difficult to mix
<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Viscosity Dynamic:</b>	Not determined
<b>Viscosity Kinematic:</b>	Not determined
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %

### 9.2. Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

#### 10.2. Chemical stability

No decomposition if used according to specifications.

#### 10.3. Possibility of hazardous reactions

Exothermic polymerization

#### 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

#### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

CAS-No.	Chemical name	Exposure routes	Method	Dose	Species	Source
80-62-6	methyl methacrylate	oral	LD50	> 5000 mg/kg	rat	OECD 401
		inhalativ	LD50	7093 ppm / 4h	rat	
142-09-6	n-Hexylmethacrylat	oral	LD50	>5000 mg/kg	rat	OECD 401

#### Primary irritant effect:

**Serious eye damage / irritation**

**On the skin:** Irritant to skin and mucous membranes.

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**On the eye:** Slightly irritating.

## Respiratory or skin sensitization

Sensitization possible through skin contact.

## Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Not applicable.

## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Aquatic toxicity:

No further relevant information available.

CAS-Nr.	Bezeichnung				Quelle
	Expositionswege	Methode	Dosis	Spezies	
80-62-6	Methylmethacrylat				
		LC50	>79 mg/l	Fisch	OECD 203
		NOEC	40 mg/l		ISO 7346
		Expositionsdauer: 96 h		449 V, C1 Oncorhynchus mykiss	EEC84

#### Toxicity to Micro-Organisms (MMA)

ECO: 100 mg/l starting inhibition of cell growth Spezies: Pseudomonas putida

### 12.2. Persistence and degradability

No further relevant information available.

#### Behaviour in environmental systems:

##### Components:

methyl methacrylate

Biodegradability: 30,7 %

Time: 28 d

Method: OECD 301 C

Valuation: difficult to decompose

### 12.3. Bioaccumulative potential

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

#### Additional ecological information:

##### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.5. Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

### 12.6. Other adverse effects

No further relevant information available.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendation**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste. Must not be disposed together with household garbage. Do not allow product to reach sewage system.


**European waste catalogue**

07 01 04\* other organic solvents, washing liquids and mother liquors


**Uncleaned packaging:****Recommendation:**

Disposal must be made according to official regulations.


**SECTION 14: Transport Information****Land transport (ADR/RID)**

14.1. UN number:	1247	
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED, mixture	
14.3. Transport hazard class(es):	3	
14.4. 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)		


**Inland waterways transport (ADN)**

14.1. UN number:	1247	
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED, mixture	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3	
Classification code:	F1	
Limited quantity:	1 L	
Other applicable information		

**Marine transport (IMDG)**

14.1. UN number:	1247	
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED, mixture	
14.3. Transport hazard class(es):	3	
14.4. Packaging group:	II	
Hazard label:	3	
Limited quantity:	1 L	
EmS:	F-E,S-D	
Other applicable information (marine transport):		

**Air transport (ICAO)**

14.1. UN number:	1247	
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED, mixture	
14.3. Transport hazard class(es):	3	

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<b>14.4. Packaging group:</b>	II
Hazard label:	3
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L
<b>Other applicable information (air transport)</b>	
Passenger-LQ:	Y341

## 14.5. Environmental hazards

No

## 14.6. Special precautions for user

Warning: Flammable liquids.

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## Section 15. Regulatory Information

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

#### National regulations:

**Water hazard class:** Water hazard class I (Self-assessment): slightly hazardous for water.

### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other Information

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### 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 (division of the American Chemical Society)
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2

### Relevant H- and EUH-phrases (number and full text)

#### Hazard statements

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.



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**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.