- 175-087

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

Tradename:

LC-Primer

Status: 13.07.2022

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

1.1. Product identifier
Name of product: **LC-Primer**

Product group:
UFI:

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

Use of the substance/mixture
Dental use.

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
Internet: 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

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin Irrit. 2 H315; Eye Irrit. 2, H319; STOT SE 3 H335

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.
Harmful to aquatic life with long lasting effects.

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 - GHS05



Hazard-determining compontens of labelling:
methyl methacrylate
2-Propenoic acid, reaction products with pentaerythritol
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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+P388	**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local regulation.

2.3. Other hazards
No information available.

SECTION 3: Composition / information on ingredients

3.1. Substances
not applicable

3.2. Mixtures
Mixture of acrylic resins and initiators..

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	60 – 80 %
80-62-6	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
607-035-00-6		
	Aliphatic hexafunktional urethane Acrylate	20 – 40 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
629-850-6	2-Propenoic acid, reaction products with pentaerythritol	< 10 %
1245638-61-2	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 oxid	< 3 %
75980-60-8	Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361 H317 H411	
015-203-00-X		

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

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.

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
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media
Water, Full water jet.

5.2. 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.

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 endagered containers. 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
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.

6.2. Environmental precautions
Do not allow uncontrolled discharge of product into the environment.

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

SECTION 7: Handling and Storage

7.1. 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 discharge. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Storage:
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.

Information about storage in one common storage facility:
Do not store together with: Oxidising agent.

Further information on storage conditions
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.

Storage class:

7.3. Specific end use(s)
Dental use.

SECTION 8: Exposure controls / personal protection

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:						
CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50 100	208 416		TWA (8 h) STEL (15 min)	WEL WEL

Additional information:
The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment:

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.

Limitation and supervision of exposure into the environment
No special precautions are necessary if used correctly.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Physical state	liquid
Colour	transparent
Odour	characteristic
pH-Value:	not determined

Changes in the physical state

Melting point	not determined
Initial boiling point and boiling range	> 100 °C
Flash point	10 °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
Water solubility	insoluble
Solubility in other solvents	not determined
Partition coefficient	not determined
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.

SECTION 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
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
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, Peroxide

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 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 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

Additional information: The lists valid during the making were used as basis.

Primary irritant effect:
On the skin: Causes skin irritation.
On the eye: Causes serious eye damage.

Respiratory or skin sensitization
May cause an allergic skin reaction. (methyl methacrylate), (2-Propenoic acid, reaction products with pentaerythritol), (Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)

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 (carcinogenity, mutagenicity and toxicity for reproduction)
Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1. 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]	Spezies	Source
80-62-6	methyl methacrylate					
	Acute fish toxicity	LC50	>79 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute crustacea toxicity	EC50	69 mg /l	48 h	Daphnia magna (Big water flea)	OECD 202
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute crustacea toxicity	EC50	3,53 mg/l	48 h	Daphnia	

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT an vPvB assessment
The product has not been tested.

12.6. Endocrine disrupting properties
No further relevant information available.

12.7. Other adverse effects
No further relevant information available.

Further information
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 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. 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.

Section 14. Transport Information

Land transport (ADR/RID)

14.1. UN-number:	UN 1247
14.2 UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
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)	E2

SAPT: > 60 °C

Inland waterways transport (ADN)

14.1. UN-number:	UN 1247
14.2 UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
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 (waterways transport)	E2

SAPT: > 60 °C

Marine transport (IMDG)

14.1. UN-number:	UN 1247
14.2 UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es)	3
14.4 Packing group:	II
Hazard label:	3
Special Provisions:	-
Limited quantity:	1 L
EmS:	F-E, S-D
Other applicable information (marine transport)	E2

SAPT: > 60 °C

Air transport (ICAO)

14.1. UN-number:	UN 1247
14.2 UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es)	3
14.4 Packing group:	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
Other applicable information (air transport)	E2

SAPT: > 60 °C

14.5. Environmental hazards

No

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 an de IBC Code
Not applicable.

SECTION 15: Regulatory Information

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

EU regulatory 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)
1-slightly water contaminating

15.2. Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out.

SECTION 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 (division of the American Chemical Society)
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

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.