

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019
Page: 1 von 9

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

1.1. Product identifier

Name of product: IMPRIMO LC Temp

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

Use of the substance/mixture

Methacrylate based resin for DLP-systems with 385 nm light sources.

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 Dam. 1, H318

Skin Sens. 1/1A/1B; H317

STOT SE 3, H335

Aquatic Chronic 3; H412

2.2. Label elements

Signal word: Danger

Pictograms: GHS07



Hazard statements

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

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of water and soap.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 2 von 9

P310	Immediately call a doctor.
P312	Call a doctor if you feel unwell.
P321	Specific treatment (see ? on this label).
P332+313	If skin irritation occurs: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P362+364	Take off contaminated clothing and wash it before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to?

Hazardous component(s) for labelling:

-

Special labelling of particular preparations:

-

2.3. Other hazards

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition / information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures

Mixture related information

Hazardous components

EC-No.	Substance	Concentration
CAS-No.	According to Regulation (EC) No. 1272/2008 (REACH)	
Index-No.		
REACH-No.		
276-957-5	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5-12-diazahexadecane-1,16-diyl bismethacrylate	20 - 50 %
72869-86-4	Skin Sens. 1/1A/1B, H317	
203-653-1	3,6,9-trioxaundecamethylene dimethacrylate	10 - 25 %
109-17-1		
231-545-4	Siliciumdioxid	< 50 %
7631-86-9		
423-340-5	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	< 2 %
162881-26-7		

Full text of H- and EUH-phrases: see Section 16.

Additional information**SECTION 4: First aid measures****4.1. Description of first aid measures****General Information:**

In case of accident or, seek medical advice immediately (show doctor directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 3 von 9

- After inhalation:** Move victim to fresh air. Instruct person to keep calm and warm. If problems persist call a physician.
- After contact with skin:** Take off all contaminated clothing immediately. In case of contact with skin, wash immediately with: plenty of water and soap. If problems persist call a physician. Take off immediately all contaminated clothing.
- After contact with eyes:** In case of contact with eyes rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
- After ingestion:** Rinse mouth immediately and drink large quantities of water. Never give anything by mouth to an unconscious person or a person with cramps. Do not induce vomiting. If problems persist call a physician.

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

No symptoms known up to now.

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

Provide with fresh air. First aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Water fog. High power water jet. Water. Foam.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide.

5.3. Advice for firefighters

General information

Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

Additional information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety. Provide adequate ventilation. Keep away from unprotected people. Keep upwind. Remove all sources of ignition.

6.2. Environmental precautions

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

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

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

Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 4 von 9

SECTION 7: Handling and Storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition – No smoking.

Precautions against fire and explosion

Take precautionary measures against static discharges.

Additional information

none.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Hints on joint storage

Do not store together with: Oxidizing agent.

7.3 Specific end use(s)

Observe instructions for use.

Further information on storage conditions**SECTION 8: Exposure controls / personal protection****8.1. Control parameters****occupational exposure limit value (TRGS 900)**

CAS-No.	Chemical name	Source:	Occupational exposure limit value: [ppm]	Occupational exposure limit value: [mg/m ³]	Limitation of exposure peaks:	Remark:
7631-86-9	Siliciumdioxid	TRGS 900		4 E		DFG, 2, Y

Substance with a common (EC) occupational exposure limit value**DNEL/DMEL-Werte**

CAS-No.	Chemical name	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5-12-diazahexadecane-1,16-diyl bismethacrylate	worker inhalative (systemisch) 3,3 mg/m ³ worker dermal (systemisch) 1,3 mg/m ³ /24h Verbraucher inhalative (systemisch) 0,6 mg/m ³ Verbraucher dermal (systemisch) 0,7 mg/m ³ /24h Verbraucher (systemisch) 0,3 mg/m ³ /24h

PNEC-Wert

CAS-No.	Chemical name	PNEC
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5-12-diazahexadecane-1,16-diyl bismethacrylate	(freshwater) 0,01 mg/l (seawater) 0,001 mg/l (sewage plant) 3,61 mg/l (freshwater sediment) 4,56 mg/kg (seawater sediment) 0,46 mg/kg (soil) 0,91 mg/kg

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 5 von 9

Additional information

None.

8.2. Exposure controls

Occupational exposure controls.

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

General protection and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN):
DIN EN 374 Suitable material: Butyl rubber.

Eye/face protection

Tightly sealed safety glasses.

Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

Environmental exposure controls.

Refer to chapter 7. No further action is necessary.

Consumer exposure controls

Refer to chapter 7. No further action is necessary.

Exposure Scenario

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	see product labeling
Odour:	characteristic
Odour threshold:	no data available

Safety relevant basis data

Density:	1,2 – 1,4 g/cm ³
Bulk density:	no data available
pH:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	no data available
Flammability (solid, gas):	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Ignition temperature:	no data available
Decomposition temperature:	no data available
Oxidizing potential:	no data available

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 6 von 9

Vapour pressure:	no data available
Vapour density:	no data available
Evaporation rate:	no data available
Water solubility:	no data available
Fat solubility:	no data available
Soluble in:	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity:	1,5 – 3 Pa·s
Solvent separation test:	no data available
Solvent content:	no data available

9.2. Other information

No known hazardous reactions.

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Polymerisation

10.4. Conditions to avoid

No special measures are necessary. Seek medical attention if problems persist. Humidity.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic. Carbon dioxide, Carbon monoxide.

Additional information

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

There are no data available on the preparation/mixture itself.

M-factor: -

Acute toxicity (oral): -

Acute toxicity (dermal): -

Acute toxicity (inhalative): -

Acute toxicity

CAS No.	Chemical name	Exposure routes	Method	Dose	Species	Source
7631-86-9	Siliciumdioxid					
109-17-1	3,6,9-trioxaundecamethylene dimethacrylate	dermal		LD50 > 3000 mg/kg	rabbit	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4, 13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	oral		LD50 > 5000 mg/kg	rat	
162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide					

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 7 von 9

Skin corrosion/irritation:

No information available on the preparation/mixture itself.
Irritant. (Bridging principle "dilution").

Serious eye damage/irritation:

No information available on the preparation/mixture itself.
Irritant. (Bridging principle "dilution").

Respiratory of skin sensitisation:

May cause sensitization especially in sensitive humans.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

There are no data available on the preparation/mixture itself.
No indication of human carcinogenicity. (Bridging principle "dilution").

Germ cell mutagenicity:

There are no data available on the preparation/mixture itself.
No indication of human germ cell mutagenicity. (Bridging principle "dilution").

Reproductive toxicity:

There are no data available on the preparation/mixture itself.
No indication of human reproductive toxicity. (Bridging principle "dilution").

STOT-single exposure:

There are no data available on the preparation/mixture itself.

STOT-repeated exposure:

There are no data available on the preparation/mixture itself.

Aspiration hazard:

There are no data available on the preparation/mixture itself.
Irritant. (Bridging principle "dilution").

SECTION 12: Ecological Information

12.1. Toxicity

There are no data available on the preparation/mixture itself.

CAS-No.	Substance	Ecotoxicity
109-17-1	3,6,9-trioxaundecamethylene dimethacrylate	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4, 13—dioxo-3, 14-dioxa-5, 12-diazahexadecane-1, 16-diyl bismethacrylate	LC50 (daphnia) > 1,2 mg/l EC50 (algae) (72h) > 0,68 mg/l
162881-26-7	Phenyl bis (2,4,6-trimethylbenzoyl)-phosphine oxide	LC50 fish (96 h) 0,09 mg/l LC50 crustaceans (48 h) 1,175 mg/l EC50 algae (96 h) 0,26 mg/l

12.2. Persistence and degradability

There are no data available on the preparation/mixture itself.

12.3. Bioaccumulative potential

There are no data available on the preparation/mixture itself.

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

12.5. Results of PBT an vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

There are no data available on the preparation/mixture itself.

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 8 von 9

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product:

Waste disposal according to EC Directives 2008/98//EEC on waste and hazardous waste.

Appropriate disposal / Package

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

List of proposed waste codes/waste designations in accordance with EWC

According to AVV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste key product:

08 04 09 – waste adhesives and sealants containing organic solvents or other dangerous substances

Waste key packaging:

15 01 10 – packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport Information

Land transport (ADR/RID)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	
Hazard label:	
Classification code:	
Special Provisions:	
Limited quantity:	
Transport category:	
Hazard No:	
Tunnel restriction code:	
Other applicable information (land transport)	

Inland waterways transport (ADN)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	
Hazard label:	
Classification code:	
Spezial Provisions:	
Limited quantity:	
Other applicable information (inland waterways transport)	

Marine transport (IMDG)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	
Hazard label:	
Special Provisions::	
Limited quantity:	
EmS:	
Other applicable information (marine transport):	

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 9 von 9

Air transport (ICAO)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	
Hazard label:	
Special Provisions:	
Limited quantity Passenger:	
IATA-packing instructions - Passenger:	
IATA-max. quantity - Passenger:	
IATA-packing instructions - Cargo:	
IATA-max. quantity - Cargo:	
Other applicable information (air transport)	
Passenger-LQ:	

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Remark none

SECTION 15: Regulatory Information

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

EU legislation

Information on Regulation (EC) No 166/2006 establishing a European Pollutant Release and Transfer Register:
not relevant

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer:
not relevant

Regulation (EC) No. 648/2004 (Detergents regulation)
not relevant

Regulation (EC) No. 850/2004 [POP-Regulation]:
not relevant

Regulation (EC) No. 649/2012 on the export and import of dangerous chemicals:
not relevant

Use restriction according to REACH annex XVII, no.:
not relevant

National regulatory information

Observe in addition any national regulations!

Restrictions of occupation

No information available.

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has not been carried out.

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



Tradename:

IMPRIMO LC Temp

Status: 25.02.2019

Page: 10 von 9

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
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

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

Hazard statements

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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Training advice

none

Recommended restrictions of use:

No special measures are necessary.

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.

Documentation of changes:

none

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none