

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 1 von 10

SECTION 1: Identification of the substance/preparation and of the company/undertaking**1.1. Product identifier**Name of product: **IMPRIMO® LC Temp**

UFI:

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.

Uses advised against

Private households (= general public)

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.comInternet: 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

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

STOT SE 3, H335

Aquatic Chronic 3, H412

2.2. Label elements**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Signal word: Warning

Pictograms: GHS07

**Hazard statements**

H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
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 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.

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

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 2 von 10

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of water/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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see label).
P332+313	If skin irritation occurs: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P337+313	If eye irritation persists: 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 acc. to official regulations.

Special labelling of particular preparations:

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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 with, among others, the following ingredients and other non-hazardous admixtures

Composition/information on ingredients

Stoff:	CAS-No.:	REACH-No.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4		< 40 %	Skin Sens. 1/1A/1B, H317	ATE (dermal) = Kein Wert ermittelbar ATE (oral) = Kein Wert ermittelbar ATE (inhalativ) = Kein Wert ermittelbar
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1		< 20 %	Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 4, H413	ATE (dermal) = 2000 ATE (oral) = 2000 ATE (inhalativ) = Kein Wert ermittelbar
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1		< 20 %	Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 4, H413	ATE (dermal) = 2000 ATE (oral) = 2000 ATE (inhalativ) = Kein Wert ermittelbar
3,6,9-Trioxaundecamethylendimethacrylat	109-17-1		< 10 %	Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317	M = 0 ATE (dermal) = 3000 mg/kg bw ATE (oral) = 5000 mg/kg bw ATE (inhalativ) = Kein Wert ermittelbar
Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid	75980-60-8		< 02 %	Repr. 2, H361; Skin Sens. 1/1A/1B, H317; Aquatic Chronic 2, H411	M = 1 ATE (dermal) = 2000 ATE (oral) = 5000 ATE (inhalativ) = 2000

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

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 3 von 10

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information: In case of accident or unwellness, seek medical advice immediately. Take off immediately all contaminated clothing.

In case of inhalation: Seek medical attention if problems persist.

Following skin contact: After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. Change contaminated, saturated clothing.

After eyes contact: No special measures are necessary. Seek medical attention if problems persist.

After ingestion: No special measures are necessary. Seek medical attention if problems persist.

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

Erythema (redness). Causes skin irritation.

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

Provide fresh air. Treat symptomatically. First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

ABC-powder, BC-powder, alcohol resistant foam. Carbon dioxide (CO₂)

Unsuitable extinguishing media

Foam. Water spray jet. Full water jet. Water mist.

5.2. Special hazards arising from the substance or mixture

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

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 fire-fighters:

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

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 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

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 4 von 10

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.

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

Keep container tightly closed and in a well-ventilated place. Keep container tightly closed in a cool, well-ventilated place.
Protect against: UV-radiation/sunlight.

Hints on joint storage

Do not store together with: Oxidizing agent. Organic peroxides. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls / personal protection
8.1. Control parameters
occupational exposure limit value

Substance	CAS-No.	Source	Occupational exposure limit value: [ppm]	Occupational exposure limit value: [mg/m ³]	Limitation of exposure peaks:	Remark:

Substance with a common (EC) occupational exposure limit value

Substance	CAS-No.	Source	Occupational exposure limit value: [ppm]	Occupational exposure limit value: [mg/m ³]	Limitation of exposure peaks:	Remark:

DNEL/PNEC values
DNEL value

Substance:	CAS-No.:	DNEL/DMEL
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	worker inhalative systemic 3,3 mg/m ³ worker dermal systemic 1,3 mg/kg bw /24h population inhalative systemic 0,6 mg/m ³ population dermal systemic 0,7 mg/kg bw/24h population systemic 0,3 mg/kg bw/24h
3,6,9-trioxaundecamethylenedimethacrylate	109-17-1	worker inhalative long-term, systemic 48,5 mg/m ³ worker dermal long-term, systemic 13,9 mg/kg bw/day population inhalative long-term, systemic 14,5 mg/m ³ population dermal long-term, systemic 8,33 mg/kg bw/day population oral long-term, systemic 8,33 mg/kg bw/day
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	worker inhalative short-term, systemic 3,52 mg/m ³ worker dermal short-term, systemic 2 mg/m ³ /24h population inhalative short-term, systemic 870 µg/m ³ population dermal short-term, systemic 1 mg/m ³ /24h population short-term, systemic 500 µg/m ³ /24h
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	worker inhalative short-term, systemic 3,52 mg/m ³ worker dermal short-term, systemic 2 mg/m ³ /24h population inhalative short-term, systemic 870 µg/m ³ population dermal short-term, systemic 1 mg/m ³ /24h population short-term, systemic 500 µg/m ³ /24h
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	worker inhalative long-term, systemic 0,822 mg/m ³ worker dermal long-term, systemic 0,233 mg/kg bw/day population inhalative long-term, systemic 0,145 mg/m ³ population dermal long-term, systemic 0,0833 mg/kg bw/day population oral long-term, systemic 0,0833 mg/kg bw/day

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



Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023
Page: 5 von 10

PNEC-Wert

Substance:	CAS-No.:	PNEC
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	aquatic, freshwater 0,01 µg/l aquatic, marine water 0,001 µg/l sewage treatment plant 3,61 µg/l sediment, freshwater 4,56 µg/kg dw sediment, marine water 0,46 µg/kg dw soil 0,91 µg/kg dw
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	aquatic, freshwater 1,4 µg/l aquatic, marine water 0,14 µg/l sediment, freshwater 115 µg/kg dw sediment, marine water 11,5 µg/kg dw soil 22,2 µg/kg dw

Additional information

None.

8.2. Exposure controls

Occupational exposure controls.

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

General protection and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: insufficient ventilation. Suitable respiratory protection apparatus: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Hand protection

Tested protective gloves are to be worn: DIN-/EN-Norms: EN ISO 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 well fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

Environmental exposure controls.

See section 7. No additional measures 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

Appearance

Physical state:	Liquid
Colour:	White
Odour:	Characteristic
Odour threshold:	No data available

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

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 6 von 10

Safety relevant basis data

	Parameter	Value	Unit	Remark
Melting point/freezing point:				No data available
Initial boiling point and boiling range:				No data available
Flammability:				No data available
Lower flammability or explosive limits:				No data available
Upper flammability or explosive limits:				No data available
Decomposition temperature:				No data available
pH:				No data available
Kinematic viscosity:		1-3	mPa*s	23 °C, 10/s
Water solubility (g/l):				
Partition coefficient: n-octanol/water:				No data available
Vapour pressure:				No data available
Density:		1,1	g/cm ³	
Relative density:				No data available
Particle properties:				No data available

9.2. Other information

-

SECTION 10: Stability and reactivity**10.1. Reactivity**

No known hazardous reactions.

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

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):** 2000**Acute toxicity (dermal):** 2000**Acute toxicity (inhalative):** 2000**Acute toxicity**

Substance:	CAS-No.:	Toxicological information
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	LC50 inhalation (rat) 2000 mg/kg bw LD50 oral (rat) 5000 mg/kg bw LD50 dermal (rat) > 2000 mg/kg bw
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	LD50 oral (rat) 2000 mg/kg LD50 dermal (rat) 2000 mg/kg
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	LD50 oral (rat) 2000 mg/kg LD50 dermal (rat) 2000 mg/kg
3,6,9-trioxaundecamethylenedimethacrylate	109-17-1	LD50 dermal (rat) > 3000 mg/kg LD50 oral (rat) > 5000 mg/kg
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	LD50 oral (rat) > 5000 mg/kg

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 7 von 10

Skin corrosion/irritation:

Frequently or prolonged contact with skin may cause dermal irritation.

Serious eye damage/irritation:

Strongly irritant. Risk of serious damage to eyes.

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.

Germ cell mutagenicity:

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

Reproductive toxicity:

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

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:

May cause sensitisation especially in sensitive humans.

SECTION 12: Ecological Information**12.1. Toxicity**

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

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	EC50 (Daphnia, 48 h) 3,53 mg/l EC50 (algae, 72 h) > 2,01 mg/l
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	LC50 (fish, 96h) 100 mg/l LC50 (crustaceans, 48 h) 6 mg/l EC50 (algae, 72 h) 100 mg/l
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	LC50 (fish, 96h) 100 mg/l LC50 (crustaceans, 48 h) 6 mg/l EC50 (algae, 72 h) 100 mg/l
3,6,9-trioxaundecamethylenedimethacrylate	109-17-1	EC50 Daphnia (Daphnia magna) 48 h 381 mg/l
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	LC 50 (Daphnia) > 1,2 mg/l EC50 (algae, 72 h) > 0,68 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. Endocrine disruptive effect

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

12.7. Other adverse effects

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

Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023
Page: 8 von 10

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Must not be disposed together with household garbage.

Appropriate disposal / Package

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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):	

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:	

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



Tradename:

IMPRIMO® LC Temp

Status: 30.01.2023

Page: 9 von 10

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

ADR/RID / IMDG / ICAO-TI / IATA-DGR: no

Marine pollutant: no

14.6. Special precautions for user

Land transport (ADR/RID)

Transport category: -

Special provisions: -

Tunnel restriction code: -

Limited quantity (LQ): -

Sea transport (IMDG)

EmS-No: -

Special provisions: -

Limited quantity (LQ): -

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 been carried out. -
Chemical safety assessments for substances in this mixture were not carried out.

Tradename:

IMPRIMO® LC TempStatus: 30.01.2023
Page: 10 von 10**SECTION 16: Other Information****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.

Key literature references and sources for data

Data arise from reference works and literature.

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 %