

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



Tradename:

**IMPRIMO® LC Cast**

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

### 1.1. Product identifier

Name of product: **IMPRIMO® LC Cast**

### 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 source for the productions of burnable cast objects.

### 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

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

Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Chronic. 4; H413

### 2.2. Label elements

#### Labelling

##### Hazardous component(s) for labelling

3,6,9-trioxaundecamethylene dimethacrylate; Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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.
H413	May cause long-lasting harmful effects to aquatic life.

#### Precautionary statements

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+313	If skin irritation occurs: Get medical advice / attention.
P337+313	If eye irritation persists: Get medical advice / attention.
P501	Dispose of contents / container to waste disposal.

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## 2.3. Other hazards

No information available.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

Mixture related information

#### Hazardous components

EG-No.	Bezeichnung	Anteil
CAS-No.	Einstufung gemäß Verordnung (EG) Nr. 1272/2008 [CLP]	
Index-No.		
REACH-No.		
203-653-1	3,6,9-trioxaundecamethylene dimethacrylate	≥ 98 %
109-17-1	Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319, STOT SE 3; H335	
01-2120762746-43-0000		
423-340-5	Phenyl bis(2,4,6-trimethylbenzoyl)phosphine oxide	≤ 2 %
162881-26-7	Skin Sens. 1; H317, Aquatic Chronic. 4; H413	
01-2119489401-38-0000		

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 unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.
- After inhalation:** Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.
- After contact with skin:** Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Call a physician immediately.
- 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. Subsequently consult an ophthalmologist.
- After ingestion:** Rinse mouth immediately and drink plenty of water. No administration in cases of unconsciousness or cramps. Do NOT induce vomiting. Call a physician immediately.

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

No symptoms known up to now. Danger: Causes skin irritation

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

**Notes for the doctor:** Provide fresh air. In case of breathing difficulties administer oxygen.

**Special treatment:** First Aid, decontamination, treatment of symptoms. Ethanol.

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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

#### **Unsuitable extinguishing media**

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

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

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

### 5.3. Advice for firefighters

#### **General information**

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray/stream 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**

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## SECTION 6: Accidental release measures

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

Remove persons to safety. Remove all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

### 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 assimilated material according to 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

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## SECTION 7: Handling and Storage

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### 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. Closed devices. Provide adequate ventilation as well as local exhaust at critical locations. Provide earthing of containers, equipment, pumps and ventilation facilities.

#### **Precautions against fire and explosion**

Take precautionary measures against static discharges.

#### **Additional information**

### 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. Ensure adequate ventilation of the storage area. Keep in a cool, well-ventilated place. Keep away from sources of ignition -No smoking. Keep/Store only in original container. Keep container tightly closed. Protect against: heat. Air. moisture. Provide earthing of containers, equipment, pumps and ventilation facilities.

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**Hints on joint storage**

Do not store together with: Oxidizing agents.

**Storage class:**

**7.3. Specific end use(s)**

Observe instructions for use.

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**SECTION 8: Exposure controls / personal protection**

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**8.1. Control parameters**

**Risk management measures according to used control banding approach.**

none

**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 required in case of: insufficient ventilation. Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

**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**

none

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	different
Odour:	characteristic
Odour threshold:	no data available

**Safety relevant basis data**

Density:	1,1 g/cm <sup>3</sup> at °C 20
Bulk density:	unapplicable
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:	unapplicable
Upper explosion limit:	unapplicable
Ignition temperature:	no data available
Decomposition temperature:	no data available
Oxidizing potential:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Evaporation rate:	no data available
Solubility:	unapplicable
Partition coefficient: n-octanol/water	unapplicable
Viscosity:	0,3 Pas
Solvent separation test:	unapplicable
Solvent content:	unapplicable

**9.2. Other information**

Solid content not determined

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

none

**10.2. Chemical stability**

stable

**10.3. Possibility of hazardous reactions**

none

**10.4. Conditions to avoid**

moisture. Heat. Keep away from sources of ignition- No smoking.

**10.5. Incompatible materials**

none

**10.6. Hazardous decomposition products**

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

**Additional information**

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

There are no data available on the mixture itself.

M-factor: -

Acute toxicity (oral): -

Acute toxicity (dermal): -

Acute toxicity (inhalative): -

### Acute toxicity

Substance	CAS-No.:	Toxicological information
3,6,9-trioxaundecamethylene dimethacrylate	109-17-1	LD50 dermal (rabbit) > 3000 mg/kg

### Skin corrosion/irritation:

Irritant.

### Serious eye damage / irritation:

Strongly irritant.

### Respiratory or skin sensitisation:

May cause sensitisation especially in sensitive humans.

### CMR effects (carcinogenic / mutagenic / toxic / effects for reproduction)

Carcinogenicity: No indications of human carcinogenicity exist.

Germ cell mutagenicity: No indications of human germ cell mutagenicity exist.

Reproductive toxicity: No indications of human reproductive toxicity exist.

### STOT-single exposure

The following symptoms may occur: drowsiness. Dizziness. Frequently or prolonged contact with skin

### STOT-repeated exposure

No information available.

Aspiration hazard:

Irritant.

## SECTION 12: Ecological Information

### 12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	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 mixture itself.

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

### 12.4. Mobility in soil

There are no data available on the mixture itself.

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**12.5. Results of PBT an vPvB assessment**

There are no data available on the mixture itself.

**12.6. Other adverse effects**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Appropriate disposal / Product**

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

**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**

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

**Waste code product:** 080409 – waste adhesives and sealants containing organic solvents or other dangerous substances**Waste code packaging:** 150102 – Packaging from plastic**SECTION 14: Transport Information****Land transport (ADR/RID)**

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

**Inland waterways transport (ADN)**

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

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**Marine transport (IMDG)**

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

**Air transport (ICAO)**

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

**14.5. Environmental hazards**

none

**14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).**

none

**Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.**

none

**Regulation (EC) No. 648/2004 (Detergents regulation)**

none

**National regulations**

Observe in addition any national regulations!

**Restrictions of occupation**

none

**Storage class****Water hazard class (WGK)**



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**Other regulations, restrictions and prohibition regulations**

none

**15.2. Chemical Safety Assessment**

For this substance 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

**Relevant H- and EUH-phrases (number and full text)****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H413	May cause long-lasting harmful effects to aquatic life

**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.