

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



Tradename:

IMPRIMO® LC MJF

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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 MJF**

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]

Met. Corr.1 ; H290
Skin Sens. 1/1A/1B; H317
Aquatic Chronic 4; H413

2.2. Label elements

Signal word: Warning
Pictograms: GHS07



Hazard statements

H290	May be corrosive to metals
H317	May cause an allergic skin reaction.
H413	May cause long-lasting harmful effects to aquatic life

Precautionary statements

P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353	IF ON SKIN (or hair): Remove/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 occurs: Get medical advice/attention.
P501	Dispose of contents/container to applicable legislation.

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Hazardous component(s) for labelling:

Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid;
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

2.3. Other hazards

See attached safety data sheets and/or usage instructions.

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Among others, the following ingredients.

Hazardous components

EG-Nr.	Chemical name	Quantity
CAS-Nr.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Index-Nr.		
REACH-Nr.		
423-340-5	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	≤ 2 %
162881-26-7		
609-946-4	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	≥ 95 %
41637-38-1	Met. Corr. 1, H290; Skin Sens. 1/1A/1B, H317; Aquatic Chronic 4, H413	

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 illness/indisposition, seek medical advice immediately (show doctor directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.
After inhalation:	Move victim to fresh air. Instruct person to keep calm and warm. If patient is breathing unevenly or stops breathing, commence artificial respiration. Call a physician immediately.
After contact with skin:	Take off all contaminated clothing immediately. In case of 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 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. Call a physician immediately.

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

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

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

Notes for the physician: Provide with fresh air. In case of breathing difficulties give oxygen.
Treatment: First aid, decontamination, symptomatic treatment. Ethanol.

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

Can be released in case of fire: 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. 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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not empty into drains or the aquatic environment. 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

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. Closed devices. Provide for sufficient ventilation and punctiform suction at critical points. Ensure the grounding of containers, apparatus, pumps and suction equipment.

Precautions against fire and explosion

Take precautionary measures against static discharges.

Additional information

none.

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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.

Hints on joint storage

Do not store together with: Oxidizing agents.

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)

Substance with a common (EC) occupational exposure limit value

DNEL/DMEL-Werte

CAS-No.	Chemical name	
41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	worker inhalative (systemisch) 3,52 mg/m ³ worker dermal (systemisch) 2 mg/m ³ /24h Verbraucher inhalative (systemisch) 870 µg/m ³ Verbraucher dermal (systemisch) 1 mg/m ³ /24h Verbraucher (systemisch) 500 µg/m ³ /24h

PNEC-Wert

Additional information

None.

8.2. Exposure controls

Occupational exposure controls.

Provide for sufficient ventilation and punctiform suction at critical points. Technical measures and the application of adequate working methods take priority over the use of 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

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.

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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 war 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.

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:	1,1 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
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:	0,4 – 1,5 Pa·s
Solvent separation test:	no data available
Solvent content:	no data available

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

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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

Can be released in case of fire: Carbon dioxide. Carbon monoxide.

Additional information

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

CAS No.	Chemical name			
	Exposure routes	Method	Dose	Species
41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid			
	oral	LD50	2000 mg/kg	rat

Skin corrosion/irritation:

Not irritant.

Serious eye damage/irritation:

Not irritant.

Respiratory of skin sensitisation:

May cause sensitization in susceptible people.

CMR effects (carcinogenicity, mutagenicity and toxicity 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:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard:

Not irritant.

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SECTION 12: Ecological Information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

CAS No	Substance:	Ecotoxicity
41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	LC50 (fish, 96 h) 100 mg/l LC50 (crustaceans, 48 h) 6 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, 96h) 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.

12.5. Results of PBT and 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

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 EAKV, 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

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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:	
IATA-packing instructions - Passenger:	
IATA-max. quantity - Passenger:	
IATA-packing instructions - Cargo:	
IATA-max. quantitiy - Cargo:	
Other applicable information (air transport)	
Passenger-LQ:	

14.5. Environmental hazards

14.6. Special precautions for user

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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:

-

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer:

none

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

none

Regulation (EC) No. 850/2004 [POP-Regulation]:

-

Regulation (EC) No. 649/2012 on the export and import of dangerous chemicals:

-

Use restriction according to REACH annex XVII, no.:

-

National regulatory information

Observe in addition any national regulations!

Restrictions of occupation

none

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

For this preparation 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
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

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

Hazard statements

- | | |
|------|---|
| H317 | May cause an allergic skin reaction. |
| H413 | May cause long lasting harmful effects to aquatic life. |

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Training advice

none

Recommended restrictions of use:

refer to chapter 1.

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