

Tradename:

**IMPRIMO® LC Denture**

Status: 09.02.2023

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 Denture**

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.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

Eye Irrit. 2, H319

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

STOT SE 3, H335

Aquatic Chronic 4, H413

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

**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 Denture**

Status: 09.02.2023

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
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1		< 50 %	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 (inhalative) = No value determined
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4		< 25 %	Skin Sens. 1/1A/1B, H317	ATE (dermal) = No value determined ATE (oral) = No value determined ATE (inhalative) = Kein Wert ermittelbar
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1		< 25 %	Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; Eye Irrit. 2, H319; STOT SE 3, H335;	ATE (dermal) = 2000 ATE (oral) = 2000 ATE (inhalative) = No value determined
3,6,9-Trioxaundecamethylendimethacrylat	109-17-1		< 15 %	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 (inhalative) = No value determined
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 (inhalative) = 2000

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

Tradename:

**IMPRIMO® LC Denture**

Status: 09.02.2023

Page: 3 von 10

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#### **SECTION 4: First aid measures**

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##### **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:** No special measures are necessary. 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.

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#### **SECTION 5: Firefighting measures**

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##### **5.1. Extinguishing media**

###### **Suitable extinguishing media**

ABC-powder, BC-powder, alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>)

###### **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 (CO<sub>2</sub>).

##### **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.

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#### **SECTION 6: Accidental release measures**

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##### **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 Denture**

Status: 09.02.2023

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 <sup>3</sup> ]	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 <sup>3</sup> ]	Limitation of exposure peaks:	Remark:

**DNEL/PNEC values**
**DNEL value**

Substance:	CAS-No.:	DNEL/DMEL
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 <sup>3</sup> worker dermal short-term, systemic 2 mg/m <sup>3</sup> /24h population inhalative short-term, systemic 870 µg/m <sup>3</sup> population dermal short-term, systemic 1 mg/m <sup>3</sup> /24h population short-term, systemic 500 µg/m <sup>3</sup> /24h
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 <sup>3</sup> worker dermal systemic 1,3 mg/kg bw /24h population inhalative systemic 0,6 mg/m <sup>3</sup> 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 <sup>3</sup> worker dermal long-term, systemic 13,9 mg/kg bw/day population inhalative long-term, systemic 14,5 mg/m <sup>3</sup> population dermal long-term, systemic 8,33 mg/kg bw/day population oral long-term, systemic 8,33 mg/kg bw/day
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	worker inhalative long-term, systemic 0,822 mg/m <sup>3</sup> worker dermal long-term, systemic 0,233 mg/kg bw/day population inhalative long-term, systemic 0,145 mg/m <sup>3</sup> population dermal long-term, systemic 0,0833 mg/kg bw/day population oral long-term, systemic 0,0833 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 <sup>3</sup> worker dermal short-term, systemic 2 mg/m <sup>3</sup> /24h population inhalative short-term, systemic 870 µg/m <sup>3</sup> population dermal short-term, systemic 1 mg/m <sup>3</sup> /24h population short-term, systemic 500 µg/m <sup>3</sup> /24h

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

Tradename:

**IMPRIMO® LC Denture**

Status: 09.02.2023

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 exhaustion 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 wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

**Environmental exposure controls.**

See section 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****Appearance**

Physical state:	Liquid
Colour:	See product label
Odour:	Characteristic
Odour threshold:	No data available

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

Tradename:

**IMPRIMO® LC Denture**

Status: 09.02.2023

Page: 6 von 10

**Safety relevant basis data**

	Parameter	Value	Unit	Remark
<b>Melting point/freezing point:</b>				No data available
<b>Initial boiling point and boiling range:</b>				No data available
<b>Flammability:</b>				No data available
<b>Lower flammability or explosive limits:</b>				No data available
<b>Upper flammability or explosive limits:</b>				No data available
<b>Decomposition temperature:</b>				No data available
<b>pH:</b>				No data available
<b>Kinematic viscosity:</b>		1.5	mPa*s	
<b>Water solubility (g/l):</b>				
<b>Partition coefficient: n-octanol/water:</b>				No data available
<b>Vapour pressure:</b>				No data available
<b>Density:</b>		1,1	g/cm <sup>3</sup>	
<b>Relative density:</b>				No data available
<b>Particle properties:</b>				No data available

**9.2. Other information**

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**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
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
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
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
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

**Skin corrosion/irritation:**

Frequently or prolonged contact with skin may cause dermal irritation.

Tradename:

**IMPRIMO® LC Denture**

Status: 09.02.2023

Page: 7 von 10

**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 sensitization 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
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
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
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-dioxa-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
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

**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 Denture**

Status: 09.02.2023

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)**

<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>	

**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:	



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



Tradename:

**IMPRIMO® LC Denture**

Status: 09.02.2023

Page: 9 von 10

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**

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

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## **SECTION 15: Regulatory Information**

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### **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 Denture**

Status: 09.02.2023

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 %