



**Safety Data Sheet according to  
Regulation (EC) No. 1907/2006 (REACH)**

Version: 1

Revision date: 17.10.2017

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

### **1.1. Product identifier**

# **optiprint**

splint 385, splint 405, I-B-T 385, tray 385, model, model clear 385, gingiva, cast, temp, match

Additive Resin

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

**Relevant identified uses:** Laser-curing resin for the production of dental objects based on a stereolithography process with 385 nm / 405 nm lightsource.

**Uses advised against:**

### **1.3. Details of the supplier of the safety data sheet**

**Manufacturer**

dentona AG  
Otto-Hahn-Str. 27

D 44227 Dortmund

**Telephone:** +49 (0) 231 5556-0  
**Telefax:** +49 (0) 231 5556-30

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

dentona AG  
Otto-Hahn-Str. 27

D 44227 Dortmund

**Telephone:** +49 (0) 231 5556-0  
**Telefax:** +49 (0) 231 5556-30

**Information contact**

+49 (0) 231 5556-0

**Information telephone:** +49 (0) 231 5556-0  
**Information telefax:** +49 (0) 231 5556-30  
**E-mail (competent person):** info@dentona.de  
**Website:** www.dentona.de

**National contact**

dentona AG

**Information telephone:** +49 (0) 231 5556-0  
**Information telefax:** +49 (0) 231 5556-30  
**E-mail (competent person):** info@dentona.de  
**Website:** www.dentona.de

**Dept. responsible for information:**

Abteilung F&E

### **1.4. Emergency telephone number**

dentona AG

**Telephone:** +49 (0) 231 5556 0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:

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

Directive 67/548/EEC:

Xi; R36 , Xi; R38 , Xi; R37 , -; R43

### 2.2. Label elements

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

Hazard pictograms:



Signal word:

GHS07

Warning

Hazard statements:

315 Causes skin irritation.

317 May cause an allergic skin reaction.

319 Causes serious eye irritation.

335 May cause respiratory irritation.

Precautionary statements:

264.1 Wash hands thoroughly after handling.

280 Wear protective gloves/protective clothing/eye protection/face protection.

302+352 IF ON SKIN: Wash with plenty of water/.

321 Specific treatment (see .? on this label).

332+313 If skin irritation occurs: Get medical advice/attention.

362+364 Take off contaminated clothing and wash it before reuse.

Classification according to Directive 67/548/EEC or 1999/45/EC

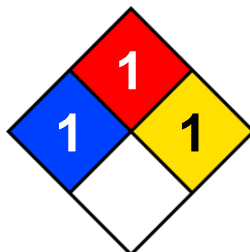
Hazard symbols:



- |                   |       |                                                                          |
|-------------------|-------|--------------------------------------------------------------------------|
| <b>R-phrases:</b> | Xi    | Irritant.                                                                |
|                   | 36    | Irritating to eyes.                                                      |
|                   | 37    | Irritating to respiratory system.                                        |
|                   | 38    | Irritating to skin.                                                      |
| <b>S-phrases:</b> | 43    | May cause sensitization by skin contact.                                 |
|                   | 20/21 | When using do not eat, drink or smoke.                                   |
|                   | 28.2  | After contact with skin, wash immediately with plenty of water and soap. |

Classification according to NFPA Hazard Identification System

Hazard symbol:



- |                      |   |
|----------------------|---|
| Health hazard:       | 1 |
| Flammability:        | 1 |
| Reactivity:          | 1 |
| Special precautions: |   |

Classification according to HMIS (Hazardous Materials Identification System)

Hazard symbol:



Health hazard: 1  
Flammability: 1  
Physical hazards: 1  
Personal protective equipment: B

## 2.3. Other hazards

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

### 3.2. Mixtures

#### Composition/information on ingredients

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat		41637-38-1				Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335	Xi; R36/37/38 -; R43
---------------------------------------------------	--	------------	--	--	--	------------------------------------------------------------------------------------	-------------------------

#### Substance with a common (EC) occupational exposure limit value

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat		41637-38-1				Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335	Xi; R36/37/38 -; R43
---------------------------------------------------	--	------------	--	--	--	------------------------------------------------------------------------------------	-------------------------

(Full text of R-, H- and EUH-phrases: see section 16.)

#### Additional information

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:** Remove contaminated, saturated clothing immediately. When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

**Following inhalation:** Provide fresh air.

**Following skin contact:** Wash immediately with: Water and soap

**After eye contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion:** Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

**Self-protection of the first aider:**

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

**Symptoms:**

Nature of Hazard:

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

Notes for the doctor:

Special treatment:

---

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Dry extinguishing powder Dry sand

Unsuitable extinguishing media: Excess water

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

In case of fire: Wear self-contained breathing apparatus. Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.3. Advice for firefighters

##### General information

Do not inhale explosion and combustion gases. Co-ordinate fire-fighting measures to the fire surroundings.

##### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus. Do not inhale explosion and combustion gases. Co-ordinate fire-fighting measures to the fire surroundings.

##### Additional information

---

### SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not allow to enter into water or drains.

#### 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).

#### 6.4. Reference to other sections

---

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advices on safe handling

All work processes must always be designed so that the following is excluded: Inhalation

##### Technical measures

All work processes must always be designed so that the following is excluded: Inhalation

##### Precautions against fire and explosion

Always close containers tightly after the removal of product. Use only in well-ventilated areas.

#### Additional information

## 7.2. Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Only use the material in places where open light, fire and other flammable sources can be kept away. Use only in well-ventilated areas.

### Packaging materials

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

### Hints on joint storage

Keep only in the original container in a cool, well-ventilated place. Keep in a cool, well-ventilated place.

**Storage class:** 10 Combustible liquids unless LGK 3A or 3B.

### Further information on storage conditions

## 7.3. Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### occupational exposure limit value

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	41637-38-1				
---------------------------------------------------	------------	--	--	--	--

#### Substance with a common (EC) occupational exposure limit value

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	41637-38-1				
---------------------------------------------------	------------	--	--	--	--

#### DNEL-/PNEC-values

##### DNEL value

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	41637-38-1				

##### PNEC Value

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	41637-38-1				

## Risk management measures according to used control banding approach

### Additional information

## 8.2. Exposure controls

### Occupational exposure controls

#### General protection and hygiene measures

#### Personal protection equipment

#### Respiratory protection

Respiratory protection

#### Hand protection

NBR (Nitrile rubber)

#### Eye/face protection

Eye glasses with side protection

#### Body protection

lab coat

#### Environmental exposure controls

#### Consumer exposure controls

#### Exposure Scenario

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: liquid  
Colour: various  
Odour: spezific  
Odour threshold:

#### Safety relevant basis data

	parameter	unit	remark
Density:		1,1 g/cm <sup>3</sup>	
Bulk density:			n.a.
pH:			n.a.
Melting point/freezing point:			n.a.
Initial boiling point and boiling range:			n.a.
Flash point:		>150 °C	
Flammability (solid, gas):			n.a.
Explosivity:			n.a.

Lower explosion limit:	n.a.
Upper explosion limit:	n.a.
Ignition temperature:	n.a.
Decomposition temperature:	n.a.
Oxidizing potential:	n.a.
Vapour pressure:	n.a.
Vapour density:	n.a.
Evaporation rate:	n.a.
Water solubility:	nein
Fat solubility:	
Soluble in:	:
Partition coefficient: n-octanol/water:	n.a.
Viscosity:	ca.700- Pa s 1200
Solvent separation test:	n.a.
Solvent content:	n.a.

## 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

n.a.

### 10.2. Chemical stability

n.a.

### 10.3. Possibility of hazardous reactions

n.a.

### 10.4. Conditions to avoid

Reaction with light, risk of polymerisation

### 10.5. Incompatible materials

Reaction with peroxides and rad. Compounds

### 10.6. Hazardous decomposition products

unstable products can polymerise spontan

Additional information

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	41637-38-1	
---------------------------------------------------	------------	--

## Specific symptoms in laboratory animals

### Irritation and etching

Irritant effect on the skin

Irritant effect on the eye

Irritant effect on the respiratory tract

Additional information

### Sensitization

### Repeated dose toxicity (subacute, subchronic, chronic)

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Germ cell mutagenicity

Reproductive toxicity

### General remarks

### Practical experience/human evidence

### Other observations

### Other information

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Bisphenol A-ethoxylat (2 EO/Phenol) Dimethacrylat	41637-38-1	
---------------------------------------------------	------------	--

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil



## 12.5. Results of PBT and vPvB assessment

## 12.6. Other adverse effects

Further ecological information

Further details

---

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Appropriate disposal/Product**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Appropriate disposal / Package

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

**Waste code product:**

**Waste code packaging:**

remark

---

## SECTION 14: Transport information

### 14.1. UN number

UN No.:

### 14.2. UN proper shipping name

Official directive for the transport

Proper Shipping name

### 14.3. Transport hazard class(es)

Hazard label(s):

Classification code:

### 14.4. Packing group

Packing group:

### 14.5. Environmental hazards

Environmental hazards:

#### 14.6. Special precautions for user

Land transport (ADR/RID)

Remark:

Transport category:

Tunnel restriction code:

Special provisions:

Limited quantity (LQ):

Sea transport (IMDG)

Special Provisions:

Remark:

EmS-No:

MFAG:

Marine pollutant:

Special provisions:

Limited quantity (LQ):

UN proper shipping name

Remark:

Limited quantity (LQ):

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark:

### SECTION 15: Regulatory information

Labeling

Hazardous component(s) for labelling

Special labelling of particular preparations

#### 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).

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

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

National regulations

Observe in addition any national regulations!

Restrictions of occupation

Storage class

10 Combustible liquids unless LGK 3A or 3B.

Water hazard class (WGK)

1 weak water pollutant (WGK 1)

Other regulations, restrictions and prohibition regulations

#### 15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out:

---

## SECTION 16: Other information

### Relevant R-, H- and EUH-phrases (Number and full text)

#### Hazard statements

- 315 Causes skin irritation.
- 317 May cause an allergic skin reaction.
- 319 Causes serious eye irritation.
- 335 May cause respiratory irritation.

#### R-phrases

- 36 Irritating to eyes.
- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.

#### Training advice

#### Recommended restrictions of use

#### Further remarks

#### Documentation of changes

#### Key literature references and sources for data

#### Abbreviations and acronyms

---