

# Safety data sheet in accordance with (EC) no. 1907/2006 (amended by regulation (EU) Nr. 453/2010)

Date of issue: 23.04.2015  
Date of revision : 29.12.20  
Valid from : 29.12.20  
Version: 4

Pro-Lux Spacer transparent  
Pro-Lux Spacer red transparent

Replaces version: 3 03-2200, 03-2210

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

### **1.1 Product Identifier**

Substance: Methacrylate  
Index-no.: 607-035-00-6  
EINECS: 201-297-1  
CAS-no.: 80-62-6  
REACH-registration no.: void

**Other means or identification:** not determined

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

Relevant identified uses: SU 20 health care, light curing die spacer (dental labs).

Uses advised against: Should not be used outside a dental lab.

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

#### **Supplier:**

al dente Dentalprodukte GmbH

#### **Street:**

Borsigstr. 1

#### **Address / zip-code / town:**

D-38644 Goslar

#### **Information contact:**

+49 (0) 5321-80031

#### **Phone / Fax / Email:**

+49 (0)5321-80031 / +49 (0)5321-50881 / E-Mail: info@aldente.de

### **1.4 Emergency Telephone Number:**

+49 (0) 171 8637790

## **Section 2: Hazards identification:**

### **2.1 Classification of the substance or mixture:**

Classification according to regulation (EC) no. 1272/2008 (CLP)  
Flammable liquids (chapter 2.6), category 2 (Flam. Liq. 2), H225,  
Skin irritation (chapter 3.2), category 2 (skin irrit. 2), H 315  
Sensitisation of skin (chapter 3.4S), category 1 (skin sens), H317  
May cause respiratory irritation (chapter 3.8R), category 3, (Stot Se 3), H 335  
For the full text of the H-statements mentioned in this section, see section 16.

### **2.2 Label Elements**

#### **Labelling according to regulation (EC) no. 1272/2008 (CLP/GHS)**

**Hazard pictograms:** GHS02, GHS07



**Signal word:** Danger (Flam.Liq. 2), Warning (Skin Irrit. 2), (Stot Se3), (Skin Sens1),  
Reduced labelling ( $\leq 125$  ml) (according to exemptions from the packaging and labelling regulations according to EC-CLP-

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regulation) Signal word: danger hazard pictograms:



## Hazardous component(s) for labelling:

Contains Methacrylate

### Hazard statements:

H225: Highly flammable liquid  
H315: Causes skin irritation  
H317: May cause an allergic skin reaction  
H335: May cause respiratory irritation

### Precautionary statements:

P102: Keep out of reach of children.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P403 +P235: Store in a well-ventilated place. Keep cool.  
P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

### Supplemental Hazard information (EU):

EUH066: Repeated exposure may cause skin dryness or cracking.

Full text of H- and EUH-phrases: see SECTION 16

## 2.3 Other Hazards:

No supplementary information available.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Principal component of the substance:

Substance name: Methacrylate  
Index-no.: 607-035-00-6  
EINECS: 201-297-1  
CAS-no.: 80-62-6

This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII.

Impurities, stabilizers:

Except for Methacrylate the spacer does not contain any other dangerous components.

### 3.2 Mixtures – not applicable

Description of the mixture:

EG-no.: CAS-no. : Index-Nno.: REACH-registration no.:

Content ration: %

Classification according to regulation (EC) no. 1272/2008 (CLP)

(Full text of H- and EUH-phrases: see SECTION 16)

## **Section 4: First aid measures**

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## 4.1 Description of first aid measures:

In general: take off contaminated clothing

### Following inhalation:

In case of dizziness after inhalation of vapors, take the person concerned to fresh air.

### Following skin contact:

Take off contaminated clothing. Wash affected skin thoroughly with water and soap. If irritation persists consult a doctor.

### Following eye contact:

Rinse eyes with current water for at least 10 minutes. If eye irritation persists consult a doctor.

### Following ingestion:

Rinse mouth and drink a lot of water – do not induce vomiting (aspiration hazard). If discomfort persist consult a doctor presenting this safety data sheet.

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

Irritant effects, drowsiness, nausea, vomiting, headache, doziness.

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

Notes for the doctor: not determined

Special treatment: not determined

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## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable: dry powder, foam, sand

Unsuitable: water

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

Flammable. An incomplete combustion may result in toxic components within the flue gas. In case of fire a respiratory equipment working independently from its ambient environment is recommended for the fire fighters. Danger of flashback. Possibility of autopolymerisation.

### 5.3 Advice for fire-fighters

In case of fire a respiratory equipment working independently from its ambient environment is recommended for the fire fighters.

## Section 6: Accidental release measures

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

#### For non-emergency personnel

Remove all sources of ignition immediately. Ensure good ventilation. Do not inhale fume or spray.

#### For emergency responders

Personal protective equipment:

respiratory equipment working independently from its ambient environment

### 6.2 Environmental precautions

Prevent the liquids from ingressing into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Wear safety equipment, absorb with liquid binding material (sand, universal binding material) and dispose of as hazardous material.

### 6.4 Reference to other sections

Dangerous combustion products: see section 5. Personal protective equipment: see section 8.

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## **Section 7: Handling and storage**

### **7.1 Precautions for safe handling**

No particular measures are necessary when used properly.

#### **Fire preventions:**

Provide adequate ventilation. Keep away from sources of ignition – don't smoke!



#### **Aerosol and dust generation preventions:**

Not determined

#### **Environmental precautions:**

Prevent the liquids from ingressing into surface water or drains.

#### **Advice on general occupational hygiene:**

Follow the advice on general occupational hygiene, when dealing with chemicals, keep away from food, don't smoke.

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

#### **Storage conditions**

Store under 30°C, tightly closed. Keep away from food. Don't store in direct sunlight.

#### **Requirements for storage rooms and vessels**

According to TRGS 510, annex 9, regulation for small quantities

**Storage class:** (LGK) (VCI) 3

### **7.3 Specific end uses**

#### **Sector specific guidelines: dental laboratories**

Except for the applications mentioned in section 1.2 there are no other specific end applications provided.

## **Section 8: Exposure controls / personal protection**

### **8.1 Control parameters**

#### **Occupational exposure limits**

Substance: Methacrylate ; CAS-no. 80-62-6

Specification : TRGS 905/TRGS 900 exposure limits

Limit value type (country of origin) : 400 mg/m<sup>3</sup> (ppm)

Peak limitation: Exceedance factor (ÜF) 2, category for short term values II

Toxic to reproduction: A risk of foetal damage is ceased to fear when observing the MAK / BAT values.

Source: Not determined

**DNEL- and PNEC-values: not determined**

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

#### **Personal protective equipment**

#### **Eye / face protection**

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Wear tight fitting goggles

## Skin protection

### Hand protection

The glove material has to be impermeable and resistant to the product.

Full contact:

Gloves made of butyl rubber.

Layer thickness:  $\geq 0,7$  mm

Penetration time:  $\geq 60$  min



Splash contact:

Gloves made of nitrile rubber

Layer thickness: 0,40 mm

Penetration time:  $< 120$  min.

### Body protection

Wear adequate working clothes.

### Respiratory protection

Generally there are no specific measures to be taken. In case of release of a more important quantity (drained off bottle) provide for sufficient ventilation.

### Thermal hazards

Not applicable if not stored over 45°C for a longer space of time.

### Environmental exposure controls

Not determined

## Section 9: Physical and chemical properties

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

Physical state:

Aggregate state: liquid

colour : transparent / red transparent

Odour : specific according to product

Odour threshold : not determined

pH-value: not determined

Melting point / freezing point :

Not determined

Initial boiling point/boiling range :

Starting from 98°C

Flash point: 10 °C (DIN 51755)

Evaporation rate : not determined

Flammability: not determined

Upper/lower explosive limits:

no data available

Vapour pressure : not determined

Vapour density: not determined

Relative density: not determined

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Solubility: slightly mixable in water  
Partition coefficient: not determined  
n-octanol/water: not determined  
Auto-ignition temperature: 434°C  
Decomposition temperature: not determined  
Viscosity: not determined  
explosive properties: considered as being non-explosive  
Oxidising properties: not determined

## Other information

### 9.2

#### Physical hazards

**Explosives** There are no further data available

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## Section 10: Stability and reactivity

### 10.1 Reactivity:

Risk of ignition

### 10.2 Chemical stability:

Under standard ambient conditions the material is chemically stable.

### 10.3 Possibility of hazardous reactions:

Not determined

### 10.4 Conditions to avoid:

Storing for a longer space of time over 45°C, direct sunlight (possibility of autopolymerisation).

### 10.5 Incompatible materials: oxidizing agents

### 10.6 Hazardous decomposition products:

When storing at room temperature: none.

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## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Oral LD50 7.872 mg/kg (rat) (TOXNET)

Dermal LS50 >5000 mg/kg (rabbit) (TOXNET)

#### Skin irritation

Absorbtion of acute toxics exclusively through skin contact is considered as being quite unlikely. Can be irritating to skin and mucous membranes upon direct contact.

Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product (EUH066)

#### Eye irritation

Result rabbit: weak eye irritation effect

**After inhalation:** irritation of mucous membranes, coughing, shortness of breath

**Sensitisation of skin:** sensitisation possible after skin contact.

#### Germ cell mutagenicity

No details available.

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## **Carcinogenicity**

No details available.

## **Reproductive toxicity**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure): may cause respiratory irritation

Specific target organ toxicity (repeated exposure): The substance is not classified on organ toxicity on repeated exposure (see single exposure).

## **Symptoms related to the physical, chemical and toxicological characteristics:**

In case of ingestion: possible digestive problems

In case of skin contact: may cause irritation of skin

In case of inhalation: headache, dizziness, cough, irritation of the respiratory system

In case of eye contact: slight irritation possible

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## **Section 12: Ecological information**

### **12.1 Toxicity**

#### **Aquatic toxicity / fish toxicity:**

This product is slightly hazardous to water. The risk arising from a small container (20 ml) can be neglected.

### **12.2 Persistence and degradability**

According to 1272/2008/CE: not to be considered as water hazardous.

Easily biodegradable.

Theoretical oxygen demand: 1,918 mg/mg

Theoretical carbon dioxide: 2,198 mg/mg

### **12.3 Bioaccumulative potential**

Not significantly accumulative.

n-Octanol/Water (log KOW) 1,38

### **12.4 Mobility in soil**

No information available

### **12.5 Results of PBT- and vPvB assessment**

Not applicable

### **12.6 Other adverse effects**

No further relevant information available.

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## **Section 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Contaminated packaging disposal**

Containers are to be treated as the product itself. 150110 (AVV)

#### **Waste codes / waste designations according to EWC / AVV:**

160506 (AVV)

The product is to be considered as special waste and has to be disposed of according to the national and regional regulations (varnishes).

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**Special precautions:** not applicable

## **Other relevant provisions for waste treatment national or EC**

Waste directive 2008/98/EC has to be observed.

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## **Section 14: Transport information**

**14.1 UN-no.** 1247

### **14.2 UN proper shipping name**

**ADR/RID:** METHYLMETHACRYLATE, MONOMER, stabilized

**IMDG-Code / ICAO-TI / IATA-DGR:** E2

**14.3 Transport hazard class(es) / hazard labels:** 3

**14.4 Packing group:** II

### **14.5 Environmental hazards**

#### **Environmentally hazardous substance marking**

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:  yes / **XXXXX no**

Marine Pollutant:  yes / **XXX no** slightly hazardous to waters

EMS-Code: F-E,S-D

### **14.6 Special precautions for user**

Requirements for dangerous goods (ADR) are also applicable inside the premises.

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

Pollution category (X, Y or Z) : not applicable, package size: 20 ml

Type of ship (1, 2 or 3) : not applicable, package size: 20 ml

No bulk transports!

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## **Section 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **EU-regulations, e.g.:**

**Directive / EC no. 2037/2000 (substances that deplete the ozone layer):** not applicable

**Directive / EC no. 850/2004 (persistent organic pollutants):** not applicable

**Directive / EC no.. 689/2008 (export and import of dangerous chemicals):** not applicable

**Directive / EC no. 648/2004 (detergent regulation):** not applicable



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## National regulations, e.g.:

**Water hazard class:** 1 (slightly hazardous to water)  
**Solvents regulation (31. BImSchV):** not applicable  
**Accidents Ordinance (12. BImSchV):** not applicable  
**Technical instructions on Air Quality Control (TA-Luft):** not applicable

## Other relevant regulations

Not applicable

## 15.2 Chemical safety assessment

No chemical safety assessment has been performed on this substance.

## Section 16: Other information

### Indication of changes

Adaption to the classification and labelling according to directive (EC) no. 1272/2008  
Section 1: Emergency phone number.

### Abbreviations and acronyms

n.a. Not applicable

### Key literature references and sources for data

Gestis substance data base - <http://gestis.itrust.de/>  
Federal Agency for Industrial Health and Safety – [www.baua.de](http://www.baua.de)

## Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

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

#### Hazard statements:

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness and dizziness

#### Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233: Keep container tightly closed.  
P102: Keep out of reach of children.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

### Supplemental Hazard information (EU):

EUH066: Repeated exposure may cause skin dryness or cracking.

### Training advice

Provide adequate information, instruction and training for operators / technicians using this product.

### Further Information

This information is based on our present state of knowledge. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. We do not take any responsibility for possible sources of errors or sufficiency of this document. The user of the product accepts the sole responsibility to adhere to all herein mentioned regulations. It is the user's obligation to read this document carefully.