

EU Safety Data Sheet

Aesthetic Basismaterial LT
Modelling Monomer

CANDULOR AG

Date of issue / Reference

30.03.2007 lise / Version 5

Replaces version of

11.04.2006 hot

Date of printing

30.03.2007 **Sheet No. 1498**

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Company

CANDULOR AG, Pünten 4, CH - 8602 Wangen bei Dübendorf
Switzerland

1 Commercial product name and supplier

- 1.1 Commercial product name / Designation **Aesthetic Basismaterial LT Modelling Monomer**
- 1.2 Application / Use Denture base material
- 1.3 Producer CANDULOR AG, Pünten 4, CH - 8602 Wangen bei Dübendorf
Tel. + 41 44 805 90 24
- 1.4 Supplier
- 1.5 TOX emergency number Emergency-Call: +423 / 235 35 35 or 373 40 40
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

2 Composition

- 2.1 Chemical characterization Mixture of Methyl methacrylate stab., PMMA, Dimethacrylate and Catalyst
- 2.2 Hazardous components
- | | |
|-----------------|--|
| CAS No. 80-62-6 | 85 - 95 % Methylmethacrylate
Xi: Irritant. F: Highly flammable. R11: Highly flammable. R43: May cause sensitisation by skin contact. R37/38: Irritating to respiratory system and skin. |
| CAS No. 97-90-5 | 5 - 10 % Ethylene glycol dimethacrylate
Xi: Irritant. R37: Irritating to respiratory system. R43: May cause sensitisation by skin contact. |
- 2.3 Further information None.

3 Hazards identification

Highly flammable. May cause sensitisation by skin contact.
Irritating to respiratory system and skin.
Highly flammable. Do not inhale vapours. Irritating to eyes,
respiratory system and skin. May cause sensitization by skin contact.

4 First aid measures

- 4.1 Eye contact Flush eyes with plenty of water (10-15 min.). Call a physician.
- 4.2 Skin contact Wash thoroughly with water.
- 4.3 Ingestion After ingestion call a physician immediately and show packaging or label. Do not induce vomiting.
- 4.4 Inhalation Remove to fresh air. If respiratory irritation is experienced, call a physician.
- 4.5 Further information Remove contaminated clothing.

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5 Fire-fighting measures

- 5.1 Suitable extinguishing media Water fog, carbon dioxide, foam, dry chemicals.
- 5.2 Extinguishing media to avoid Do not use direct water stream.
- 5.3 Further information Cool containers in the vicinity of the blaze using a water spray. Highly flammable liquid. Keep possible ignition sources away from vapours.

6 Accidental release measures

Clean up with absorbent material such as sawdust, diatomaceous earth or universal absorbents.
Dispose of according to local and national regulations.
Do not allow to flow off into the drains or waters.

7 Handling and storage

- 7.1 Handling Only adequately trained personnel should handle this product.
- 7.2 Industrial hygiene Usual hygienic measures for dental practice.
- 7.3 Storage Store at 12-28 °C / 54-82 °F.
Keep containers tightly closed.
- 7.4 Place of storage Store in dry well ventilated area.
Store away from sources of ignition and heat.
Avoid exposure to light.
- 7.5 Fire- and explosion-protection Take precautions to avoid accumulation of static charge.

8 Exposure controls / Personal protection

- 8.1 Technical measures Control airborne concentration below the exposure guideline.
- 8.2 Control of threshold limits MAK (Maximale Arbeitsplatzkonzentration, Germany) is 50 ppm.
ACGIH (American Conference of Governmental Industrial Hygienists, USA) Threshold Limit Value (TLV) is 100 ppm (Ceiling).
- 8.3 Personal protective equipment
- 8.3.1 Respiratory protection In poorly ventilated areas, use air-purifying respiratory protection apparatus (type A).
- 8.3.2 Hand protection Gloves.
Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.
Check penetration time for the specific gloves used with the glove manufacturer.
- 8.3.3 Eye protection Safety goggles.
- 8.3.4 Other Eye wash fountain should be located in immediate work area.
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9 Physical and chemical properties

9.1 Appearance	clear liquid	
9.2 Colour	colourless	
9.3 Odour	characteristic	
9.4 Change of physical state		Test method:
Melting point	- 48 °C	
Boiling point	+ 100 °C	
9.5 Density	0.94 g/cm ³ (20°C)	
9.6 Vapour pressure		
	47 mbar (20°C)	
9.7 Viscosity	0.6 mPa·s (20°C)	
9.8 Solubility		
Solubility in water	1.6 g/l	
9.9 pH	not determined	
9.10 Flash point	10 °C	DIN 51755
9.11 Ignition temperature	430 °C	DIN 51794
9.12 Explosion limits	Lower: 2.1 Vol% Upper: 12.5 Vol%	
9.13 Further information	None.	

10 Stability and reactivity

10.1 Thermal decomposition	None, if used in accordance to instructions.
10.2 Hazardous decomposition products	None under normal conditions of storage and use.
10.3 Hazardous reactions	Polymerises in the presence of radical initiators (e.g. peroxides). Polymerisation with heat build-up may occur.
10.4 Further information	The product is highly flammable. Avoid ignition sources such as flames or spark producing equipment.

11 Toxicological information

11.1 Acute toxicity	LC50/Rat: 3'750 ppm Oral LD50 for rats: 7'900 mg/kg
11.2 Subacute / Chronic toxicity	Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.
11.3 Further information	Excessive exposure may cause eye and respiratory irritation.

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12 Ecological information

The product must not enter effluent, ground water, surface water or the soil.

13 Disposal considerations

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

13.1 EU waste key

18 01 06

14 Transport information

14.1 Transport at land

ADR 3 RID 3

UN Number 1247 Kemler Number
Packing Group II
Proper shipping name Methyl methacrylate monomer, stabilized

14.2 Transport at sea

ADNR 3 IMDG 32-04

UN Number 1247
EMS F-E, S-D MFAG 330
Packing Group II
Proper shipping name Methyl methacrylate monomer, stabilized

14.3 Air transport

ICAO / IATA-DGR Class 3
UN Number 1247
Proper shipping name Methyl methacrylate monomer, stabilized

Subsidiary Risk ---
Labels Flamm. liquid

Passenger airplane Packing Group II
Packing Instructions 305

Cargo Airplane max. 5 L
Packing Instructions 307

max. 60 L

14.4 Further information

Sample shipment not allowed by mail.

15 Regulatory information

The product is a medical device according to the EC-directive 93/42/EEC.

This product requires classification according to the criteria of the "Gefahrstoffverordnung".

15.1 UN number

1247

15.2 National regulations



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- 15.3 EU number 607-035-00-6
- 15.4 Hazard symbols **Xi** **F**
 
- 15.5 Hazard designation Xi: Irritant. F: Highly flammable. Contains Methylmethacrylate, Ethylene glycol dimethacrylate.
- 15.6 Risk phrases **R: 11-43-37/38**
11 Highly flammable.
43 May cause sensitisation by skin contact.
37/38 Irritating to respiratory system and skin.
- 15.7 Safety phrases **S: 2-24-37-46**
2 Keep out of the reach of children.
24 Avoid contact with skin.
37 Wear suitable gloves.
46 If swallowed seek medical advise immediately and show this container or label.
- 15.8 MAK value The "Maximale Arbeitsplatzkonzentration" is 50 ppm = 210 mg/m³
- 15.9 BVD classification (CH) F1 1
- 15.10 VbF (D) AI
- 15.11 Further information None.

16 Other information

Version: 5
Changes: 2/7/9/10/12/13/15

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.