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

1.1 Product identifier

Trade name: **SR Ivocap Elastomer Monomer**

- **CAS Number:** 80-62-6
- **EC number:** 201-297-1
- **Index number:** 607-035-00-6

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

No further relevant information available.

- **Application of the substance / the mixture:** Resin for us as poitioner, mouth guard, and elastic bite splint

1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:** Ivoclar Vivadent AG
  Bendererstrasse 2
  FL-9494 Schaan
  PRINCIPALITY OF LIECHTENSTEIN
  
  Tel: +423 235 35 35
  Fax: +423 235 33 60

- **Further information obtainable from:**
  Regulatory Affairs
  sds@ivoclarvivadent.com

- **Emergency telephone number:** +423 / 235 33 13 (Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**
  
  **Flam. Liq. 2** H225 Highly flammable liquid and vapour.
  **Skin Irrit. 2** H315 Causes skin irritation.
  **Skin Sens. 1** H317 May cause an allergic skin reaction.
  **STOT SE 3** H335 May cause respiratory irritation.

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
  The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**

  ![GHS02](image1.png)
  ![GHS07](image2.png)

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  methyl methacrylate

- **Hazard statements**
  H225 Highly flammable liquid and vapour.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H335 May cause respiratory irritation.

(Contd. on page 2)
Trade name: SR Ivocap Elastomer Monomer

- Precautionary statements
  
P210  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  
P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
  
P262  Do not get in eyes, on skin, or on clothing.
  
P280  Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P501  Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances

  - CAS No. Description
    
    80-62-6 methyl methacrylate
  
- Identification number(s)

  - EC number: 201-297-1
  
- Index number: 607-035-00-6

SECTION 4: First aid measures

- 4.1 Description of first aid measures

  - After inhalation: Supply fresh air and to be sure call for a doctor.
    
    In case of unconsciousness place patient stably in side position for transportation.
  
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

- After eye contact: Rinse opened eye for several minutes under running water.

- After swallowing: Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

  No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

  - Suitable extinguishing agents:
    
    CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  
- For safety reasons unsuitable extinguishing agents: Water with full jet

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

- 5.3 Advice for firefighters

  - Protective equipment: No special measures required.
  
- Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

  - Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.05.2015
Version number 9
Revision: 04.05.2015

Trade name: SR Ivocap Elastomer Monomer

(Contd. of page 2)

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Only adequately trained personnel should handle this product.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
Store in a cool location.
Information about storage in one common storage facility: Store away from oxidising agents.
Further information about storage conditions:
Store receptacle in a well ventilated area.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
80-62-6 methyl methacrylate

<table>
<thead>
<tr>
<th>WEL</th>
<th>Short-term value: 416 mg/m³, 100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Long-term value: 208 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
Usual hygienic measures for dental practice.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Recommended filter device for short term use:
Filter A1
Filter A2
Filter A3

(Contd. on page 4)
Protection of hands:

- **Protection of hands:**
  - **Protective gloves**

After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves**
  - Butyl rubber, BR
  - Chloroprene rubber, CR
  - Natural rubber, NR
  - Nitrile rubber, NBR
  - Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Not suitable are gloves made of the following materials:**
  - Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.

**Eye protection:**

- **Tightly sealed goggles**

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

  - **Appearance:**
    - **Form:** Fluid
    - **Colour:** Colourless
    - **Odour:** Acrid
    - **Odour threshold:** Not determined.

  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** -48 °C
  - **Boiling point/Boiling range:** 101 °C

- **Flash point:** 10 °C

- **Ignition temperature:** 430 °C

- **Self-igniting:** Not determined.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**
  - **Lower:** 2.1 Vol %
  - **Upper:** 12.5 Vol %

- **Vapour pressure at 20 °C:** 47 hPa

- **Density at 20 °C:** 0.939 g/cm³
 SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable under normal handling and storage conditions.
- 10.3 Possibility of hazardous reactions
  Forms explosive gas mixture with air.
  Reacts with strong oxidising agents.
  Exothermic polymerisation.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None under normal conditions of storage and use.

 SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values relevant for classification:
    80-62-6 methyl methacrylate
    Oral [LD50] 7872 mg/kg (rat)
- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: No irritating effect.
  - Sensitisation: Sensitisation possible through skin contact.
- Additional toxicological information: No further relevant information available.

 SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
40.1.5 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue
18 01 06* chemicals consisting of or containing dangerous substances

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA UN1247

14.2 UN proper shipping name
ADR 1247 METHYL METHACRYLATE MONOMER, STABILIZED
IMDG, IATA METHYL METHACRYLATE MONOMER, STABILIZED

14.3 Transport hazard class(es)
ADR
- Class 3 (F1) Flammable liquids.
- Label 3

IMDG, IATA
- Class 3 Flammable liquids.
- Label 3

14.4 Packing group
ADR, IMDG, IATA II

14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for user
- Warning: Flammable liquids.
- Danger code (Kemler): 339

* (Contd. on page 7)
Trade name: SR Ivocap Elastomer Monomer

- EMS Number: F-E,S-D

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

- Transport/Additional information:
  - ADR
  - Limited quantities (LQ) 1L
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Excepted quantities (EQ) 2
  - Transport category
  - Tunnel restriction code D/E

- IMDG
  - Limited quantities (LQ) 1L
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Excepted quantities (EQ) Code: E2

- UN "Model Regulation": UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, 3, II

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - National regulations:
  - Other regulations, limitations and prohibitive regulations
    The product is a medical device according to the Directive 93/42/EEC.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* Data compared to the previous version altered.