

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

# 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: SR Ivocap Clear Monomer
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation Auxiliary for dental technology
- · 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 msds@ivoclarvivadent.com

· Emergency telephone number: +423 / 235 33 13

### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R37/38: Irritating to respiratory system and skin.



Xi; Sensitising

*R43:* May cause sensitisation by skin contact.



F; Highly flammable

R11: Highly flammable.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:





Xi Irritant F Highly flammable

· Hazard-determining components of labelling:

methyl methacrylate ethylene dimethacrylate

· Risk phrases:

11 Highly flammable.

37/38 Irritating to respiratory system and skin.

(Contd. of page 1)

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

# Trade name: SR Ivocap Clear Monomer

43 May cause sensitisation by skin contact.

- · Safety phrases:
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe fumes/aerosol.
- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 60 This material and its container must be disposed of as hazardous waste.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate	🗙 Xi R37/38; 🗙 Xi R43; 🍎 F R11	50-100%	
CAS: 97-90-5 EINECS: 202-617-2		Xi R37; Xi R43	2.5-10%	

· Additional information: For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# 5 Firefighting measures

- · 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
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information Cool endangered receptacles with water spray.

GB

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

Trade name: SR Ivocap Clear Monomer

(Contd. of page 2)

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Only adequately trained personnel should handle this product.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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 oxidizing agents.
- · Further information about storage conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

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

#### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

#### 80-62-6 methyl methacrylate

WEL () Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Usual hygienic measures for dental practice.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

(Contd. on page 4)

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

# Trade name: SR Ivocap Clear Monomer

(Contd. of page 3)

#### · Respiratory protection:

*Use suitable respiratory protective device in case of insufficient ventilation.* 

Filter A

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · 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.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

· 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

# 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Lower:

Form: Fluid Colour: Colourless · Odour: Pungent · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition -48°C Melting point/Melting range: Boiling point/Boiling range: 101°C · Flash point: 10°C · Ignition temperature: 430°C · Self-igniting: Product is not selfigniting. · Danger of explosion: Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. · Explosion limits:

2.1 Vol %

(Contd. on page 5)

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

Trade name: SR Ivocap Clear Monomer

		(Contd. of page 4)
Upper:	12.5 Vol %	
· Vapour pressure at 20°C:	47 hPa	
· Density at 20°C:	0.944 g/cm³	
Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water at 20°C:	1.6 g/l	
Segregation coefficient (n-octanol/water): Not determined.		
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Other information	No further relevant information available.	

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal handling and storage conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions

Forms explosive gas mixture with air.

Reacts with strong oxidizing agents.

Exothermic polymerization.

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None under normal conditions of storage and use.

### 11 Toxicological information

- · 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.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· Sensitisation May cause sensitisation by skin contact.

### 12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.

(Contd. on page 6)

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

# Trade name: SR Ivocap Clear Monomer

(Contd. of page 5)

- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · 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.

# 14 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID class: 3 (F1) Flammable liquids.

Danger code (Kemler): 339
UN-Number: 1247
Packaging group: II
Hazard label: 3

· UN proper shipping name: 1247 METHYL METHACRYLATE MONOMER, STABILIZED

· Tunnel restriction code D/E

· Maritime transport IMDG:



· IMDG Class:
· UN Number:
· Label
· Packaging group:
· EMS Number:
· Marine pollutant:
No

• Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

(Contd. on page 7)

Printing date 28.02.2011 Version number 7 Revision: 28.02.2011

Trade name: SR Ivocap Clear Monomer

(Contd. of page 6)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 3
 · UN/ID Number: 1247
 · Label 3
 · Packaging group: II

· Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

- · Special precautions for user Warning: Flammable liquids.
- · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

# 15 Regulatory information

- · 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 EC-directive 93/42/EEC.

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

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

R11 Highly flammable.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R43 May cause sensitisation by skin contact.

GB