

**SAFETY DATA SHEET (GHS)**

**Issue Date:** 22.06.2016  
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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER****1.1 Product identifier:-**

**Product name:** SR Chromasit Opaquer Liquid  
**Product number:** 531860 / 531876

**1.2 Other means of identification:-**

Not applicable.

**1.3 Recommended use of the chemical and restrictions on use:-**

Not applicable.

**Identified uses:**

Crown and Bridge material.

**1.4 Details of the manufacturer and importer:-****Manufacturer:**

Ivoclar Vivadent AG  
 Bendererstrasse 2 FL-9494 Schaan  
 Principality of Liechtenstein  
 Tel: + 423 235 35 35 Fax: + 423 235 33 60  
 Ivoclar Vivadent Pty Ltd  
 1- 5 Overseas Drive Noble Park North VIC 3174  
 Tel: + 61 3 9795 9599 Fax: + 61 3 9795 9645  
 Email: [info@ivoclarvivadent.com](mailto:info@ivoclarvivadent.com)

**Importer:****1.5 Emergency phone number:**

13 11 26  
 Poisons Hotline (24 hours / 7 days)

**2. HAZARD(S) IDENTIFICATION****2.1 GHS Classification:-**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 3 H335 May cause respiratory irritation.  
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**2.2 GHS Label elements, including precautionary statements:-****Hazard Pictogram:**

GHS02



GHS07

**Signal word:**

Danger

**Hazard-determining components of labelling:**

Methyl methacrylate  
 Urethane dimethacrylate

**Hazard statements:**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Precautionary statements:**

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.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards:-**

**Results of PBT and vPvB assessment;**

<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient name	CAS No.	Classification	Concentration
Methyl Methacrylate	80-62-6	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335	25-50%
Urethane dimethacrylate	72869-86-4	Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	25-50%
Non-hazardous ingredients	N/A	N/A	to 100%

For the full text of the H-Statements mentioned in this Section, refer to Section 16.

**4. FIRST AID MEASURES****4.1 Description of necessary first aid measures:-****General advice:**

Remove contaminated clothing and shoes immediately and launder thoroughly before reusing.  
 First aid facilities include first aid rooms and medical centres.

If a risk assessment determines that a first aid room or medical centre is not needed, a rest area within the workplace may be suitable to assist an injured or ill person.

**If inhaled:**

Ensure supply of fresh air.

Remove affected person from the immediate area.

Keep patient warm. Consult doctor if symptoms persist.

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

**In case of skin contact:**

Wash off immediately with water.

If skin irritation continues, consult a doctor.

**In case of eye contact:**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart and seek medical advice.

**If swallowed;**

Do not induce vomiting.

Rinse mouth thoroughly with water.

Let plenty of water be drunk in small gulps.

Never give anything by mouth to an unconscious person.

Call a doctor immediately.

**4.2 Symptoms caused by exposure:-**

Please refer to section 2.2 and section 11.

**4.3 Medical attention and special treatment:-**

No further relevant information available.

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing equipment:-

**Suitable extinguishing media:**

Carbon dioxide, powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

Water with full jet.

**Unsuitable extinguishing media:**

### 5.2 Specific hazards arising from the substance/mixture/product:-

No further relevant information available.

### 5.3 Special protective equipment and precautions for fire fighters:-

**Special personal protective equipment:**

Wear self-contained respiratory protective device.

**Precautions:**

Cool endangered receptacles with water spray.

**Hazchem code:**

3 Flammable liquids.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

Use of suitable equipment (incl PPE) to prevent contamination of skin, eyes, clothing, removal of ignition sources, ventilation, emergency procedures (eg. evacuate, consult expert).

### 6.2 Environmental precautions:-

Do not allow to enter sewers/surface or ground water.

### 6.3 Methods and materials for containment and cleaning up:-

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:-

No special measures necessary if stored and handled as prescribed.

Ensure good ventilation/exhaustion at the workplace.

Keep ignition sources away – do not smoke.

Protect against electrostatic charges.

Wash hands before breaks and after work.

Do not eat, drink or smoke during work time.

Remove soiled or soaked clothing immediately.

Keep away from foodstuffs and beverages.

### 7.2 Conditions for safe storage, including any incompatibilities:-

Keep only in the original container.

Containers which are opened must be carefully closed and kept upright to prevent leakage.

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed receptacles.

Store receptacle in a well ventilated area.

Recommended storage temperature for storage rooms and vessels is 20 - 30°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure control measures:-

**Occupational exposure limits:**

Component	CAS No.	Value	Parameters	Basis
Methyl Methacrylate	80-62-6	Short-term value: 416 mg/m <sup>3</sup>	100 ppm	The lists valid during the making were used as basis.
		Long-term value: 208 mg/m <sup>3</sup>	50 ppm	

**Ingredients with biological limit values:**

Exposure should be kept to as low as practicable and below the AOES.

## 8.2 Biological monitoring:-

Assess in accordance with exposure limits – please refer to section 8.1.

### Exposure controls / Personal protective equipment / General protective and hygienic measures:

Usual hygienic measures for dental practice.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

## 8.3 Control banding:-

Use good industrial hygiene practice and general ventilation.

## 8.4 Engineering controls:-

In case of intensive contact, wear protective gloves (EN 374).

Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn.

## 8.5 Individual protection measures include PPE:-

### Eye/face protection:



### Safety glasses

Use tightly fitting safety glasses as per Australian Standard AS 1336 and AS/NZS 1337.

### Skin protection:



### 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

Butyl rubber, BR.

Fluorocarbon rubber (Viton).

PVA 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 cannot 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.

Provide for good ventilation of working area (local exhaust ventilation, if necessary).

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.

### Respiratory protection:

**Recommended filter device for short term use:**  
Filter A

## 9. PHYSICAL/CHEMICAL PROPERTIES

### 9.1 Information on physical/chemical properties:-

a) <b>Appearance/Form:</b>	Fluid.
b) <b>Colour:</b>	Colourless.
c) <b>Odour:</b>	Pungent
d) <b>Odour threshold:</b>	Not determined.
e) <b>pH value:</b>	Not determined.
f) <b>Melting point/melting range:</b>	Undetermined.
g) <b>Boiling point/boiling range:</b>	101°C.
h) <b>Flash point:</b>	10°C.
i) <b>Ignition temperature:</b>	430°C.
j) <b>Self-igniting:</b>	Product is not self-igniting.
k) <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
l) <b>Upper/lower flammability or explosive limits:</b>	Lower   2.1 Vol%. Upper   12.5 Vol%.
m) <b>Vapour pressure at 20°C:</b>	47 hPa
n) <b>Density:</b>	Not determined.
o) <b>Relative density:</b>	Not determined.
p) <b>Vapour density:</b>	Not determined.
q) <b>Evaporation rate:</b>	Not determined.
r) <b>Solubility in/miscibility with water:</b>	Not miscible or difficult to mix
s) <b>Partition coefficient: n- octanol/water:</b>	Not determined.
t) <b>Viscosity:</b>	Dynamic   Not determined. Kinematic   Not determined.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:-

No further relevant information available.

### 10.2 Chemical stability:-

Stable under normal handling and storage conditions.

#### **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

### 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.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:-

#### **Acute toxicity / Values relevant for classification:**

Methyl Methacrylate | 80-62-6

Oral | LD50 | 7872 mg/kg (rat)

#### **Skin corrosion/irritation:**

Irritant to skin and mucous membranes.

#### **Serious eye damage/eye irritation:**

Irritating effect.


#### **Respiratory or skin sensitization:**

Sensitisation possible through skin contact.

#### **Germ cell mutagenicity:**

No further relevant information available.

<p><b>Carcinogenicity:</b>  <b>Reproductive toxicity:</b>  <b>Specific target organ toxicity - single exposure:</b>  <b>Specific target organ toxicity - repeated exposure:</b>  <b>Aspiration hazard:</b>  <b>Additional information:</b></p>	<p>No further relevant information available.  No further relevant information available.  No further relevant information available.  No further relevant information available.  No further relevant information available.  No further relevant information available.</p>
<p><b>11.2 Information on possible routes of exposure:-</b>  <b>Short Term (Acute) Exposure:</b>  <b>Swallowed:</b>  <b>Eyes:</b>  <b>Skin:</b>  <b>Inhaled:</b>  <b>Long Term (Chronic) Exposure:</b>  <b>Swallowed:</b>  <b>Eyes:</b>  <b>Skin:</b>  <b>Inhaled:</b></p>	<p>No further relevant information available.  No further relevant information available.  Irritating effect.  Irritant to skin and mucous membranes.  No further relevant information available.  No further relevant information available.  No further relevant information available.  Irritating effect.  Irritant to skin and mucous membranes.  No further relevant information available.  No further relevant information available.</p>
<p><b>11.3 Early onset symptoms related to exposure:-</b></p>	<p>No further relevant information available.</p>
<p><b>11.4 Delayed health effects from exposure:-</b></p>	<p>No further relevant information available.</p>
<p><b>11.5 Exposure levels and health effects:-</b></p>	<p>No further relevant information available.</p>
<p><b>11.6 Interactive effects:-</b></p>	<p>No further relevant information available.</p>
<p><b>11.7 Other:-</b></p>	<p>No further relevant information available.</p>
<p><b>12. ECOLOGICAL INFORMATION</b></p>	
<p><b>12.1 Ecotoxicity:-</b></p>	<p>No further relevant information available.</p>
<p><b>12.2 Persistence/degradability:-</b></p>	<p>No further relevant information available.</p>
<p><b>12.3 Bioaccumulative potential:-</b></p>	<p>No further relevant information available.</p>
<p><b>12.4 Mobility in soil:-</b></p>	<p>No further relevant information available.</p>
<p><b>12.5 Other adverse effects:-</b></p>	<p>No further relevant information available.</p>
<p><b>Additional ecological information / General notes:</b></p>	<p>Do not allow undiluted product or large quantities if it to reach ground water, water course or sewage system.</p>
<p><b>12.6 Other adverse effects:-</b></p>	<p>No further relevant information available.</p>
<p><b>13. DISPOSAL CONSIDERATIONS</b></p>	
<p><b>13.1 Disposal methods:-</b></p>	<p>Must not be disposed together with household garbage.  Do not allow product to reach sewage system.  Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal.  Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.  Disposal must be made according to official regulations.  Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.</p>
<p><b>14. TRANSPORT INFORMATION</b></p>	

<b>UN number ADR / IMDG / IATA:-</b>	UN1247
<b>UN proper shipping name or technical name:-</b>	
<b>ADR:</b>	1247 METHYL METHACRYLATE MONOMER, STABILIZED
<b>IMDG, IATA:</b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b>Transport hazard class(es):</b>	
	
<b>Label:</b>	3 (F1) Flammable liquids
<b>Packaging group:</b>	3
<b>Environmental hazards:</b>	II
<b>Special precautions for user:</b>	Not applicable.
<b>Danger code:</b>	Warning: Flammable liquids.
<b>EMS Number:</b>	339
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	F-E, S-D.
<b>Additional information – ADR:-</b>	Not applicable.
<b>Limited quantities:</b>	LQ4
<b>Transport category:</b>	2
<b>Tunnel restriction code:</b>	D/E
<b>Hazchem or emergency action code:</b>	3 (F1) Flammable liquids.

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-

Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

Notification status in accordance with section 3 and current national legislation.

## 16. OTHER INFORMATION

### Key to abbreviations/acronyms used in SDS:-

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

### Key literature references/data sources used to compile SDS:-

Standard EN420:2003 General requirements for protective gloves: disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).

Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Personal eye protection - Eye and face protectors for occupational applications: safety glasses (Australian Standard AS 1336 and AS/NZS 1337.1:2010).

### Copyright statement:-

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.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road).  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ELINCS: European List of Notified Chemical Substances.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
LC50: Lethal concentration, 50 percent.  
LD50: Lethal dose, 50 percent.  
Flam. Liq. 2: Flammable liquids, Hazard Category 2.  
Flam. Liq. 3: Flammable liquids, Hazard Category 3.  
Acute Tox. 4: Acute toxicity, Hazard Category 4.  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2.  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2.  
Repr. 2: Reproductive toxicity, Hazard Category 2.  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3.  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2.  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1.

**\* Data compared to the previous version altered**

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