

SAFETY DATA SHEET (GHS)

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER

1.1 Product identifier:-

> Product name: **SR Ivocron Hot Liquid**

Product number: 550082

1.2 Other means of identification:-

Not applicable.

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

Not applicable.

Importer:

Identified uses: Crown and bridge material.

Details of the manufacturer and importer:-1.4

Manufacturer:

Ivoclar Vivadent AG

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Principality of Liechtenstein

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1.5 **Emergency phone number:** 13 11 26

Poisons Hotline (24 hours / 7 days)

2. HAZARD(S) IDENTIFICATION

GHS Classification:-2.1

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.

2.2 GHS Label elements, including precautionary statements:-

Hazard Pictogram:





Signal word:

Hazard-determining components of

labelling:

Hazard statements:

Danger

Methyl methacrylate

Triethylene glycol dimethacrylate

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

P210 Keep away from heat, hot surfaces, sparks, open **Precautionary statements:**

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.

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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:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

2.3 Other hazards:-

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

vPvB: Not applicable.

3 COMPOSITION/INFORMATION ON INGREDIENTS

COM CONTOUNING CHIMATION ON MOREDIENTO						
Ingredient name	CAS No.	Classification	Concentration			
Methyl methacrylate	80-62-6	Flam. Liq. 2 - H225	50-100%			
		Skin Irrit. 2 - H315				
		Skin Sens. 1 - H317				
		STOT SE 3 - H335				
Triethylene glycol dimethacrylate	109-16-0	Skin Irrit. 2 - H315	25-50%			
		Eye Irrit. 2 - H319				
		Skin Sens. 1 - H317				
		STOT SE 3 - H335				
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

If inhaled:

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.

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.

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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.

Unsuitable extinguishing media: Water with full jet.

5.2 Specific hazards arising from the

No further relevant information available.

substance/mixture/product:-

5.3 Special protective equipment and precautions for fire fighters:-

Special personal protective equipment:Wear self-contained respiratory protective device.
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.

Only adequately trained personnel should handle this product.

For use in dentistry only.

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:

Cooupational exposure limits.						
Component	CAS No.	Value	Parameters	Basis		
Methyl methacrylate	80-62-6	Short-term value: 416 mg/m³ Long-term value: 208 mg/m³	100 ppm 50 ppm	The lists valid during the making were used as basis.		

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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.

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:



Skin protection:



Safety glasses

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

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.

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Respiratory protection:

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.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on physical/chemical properties:-

Appearance/Form: Fluid. a)

Colour: b) Colourless. Odour: Pungent. c)

Odour threshold: Not determined. d) e) pH value: Not determined.

f) Melting point/melting range: -48°C. Boiling point/boiling range: 101°C. g) h) Flash point: 10°C.

Ignition temperature: i) 430°C.

j) Self-igniting: Product is not self-igniting.

Danger of explosion: Product is not explosive. However, formation of explosive k)

air/vapour mixtures are possible.

I) Upper/lower flammability or explosive Lower 2.1 Vol%. limits: 12.5 Vol%. Upper

Vapour pressure at 20°C: 47 hPa. m) Density at 20°C: 0.943 g/cm³. n) Relative density: Not determined. 0) Vapour density: Not determined. p) q) **Evaporation rate:** Not determined.

Solubility in/miscibility with water at 20°C: 1.6 g/l. r)

Partition coefficient: n- octanol/water: Not determined. s)

Dynamic Not determined. t) Viscosity: Kinematic | Not determined.

10. STABILITY AND REACTIVITY

Reactivity:-10.1

No further relevant information available.

Chemical stability:-10.2

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 oxidising agents.

Exothermic polymerisation.

10.4 Conditions to avoid:-

No further relevant information available.

Incompatible materials:-10.5

No further relevant information available.

10.6 Hazardous decomposition products:-

None under normal conditions of storage and use.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:-

Acute toxicity / Values relevant for classification:

LD/LC50 values relevant for classification:

Methyl methacrylate 80-62-6

Skin corrosion/irritation:

Serious eye damage/eye irritation: Respiratory or skin sensitization:

Germ cell mutagenicity:

Carcinogenicity: Reproductive toxicity:

Specific target organ toxicity - single

exposure:

Specific target organ toxicity - repeated

exposure:

Aspiration hazard:

Additional information:

11.2 Information on possible routes of exposure:

Short Term (Acute) Exposure:

Swallowed:

Eyes:

Skin: Inhaled:

Long Term (Chronic) Exposure:

Swallowed:

Eves:

Skin:

Inhaled:

11.3 Early onset symptoms related to exposure:-

Delayed health effects from exposure:-11.4

Exposure levels and health effects:-11.5

11.6 Interactive effects:-

11.7 Other:- No further relevant information available. No further relevant information available.

LD50

Irritating effect.

Irritating effect.

Irritating effect.

Irritant to skin and mucous membranes.

Sensitisation possible through skin contact. No further relevant information available.

Irritant to skin and mucous membranes.

No further relevant information available.

No further relevant information available.

No further relevant information available.

Irritant to skin and mucous membranes. No further relevant information available.

No further relevant information available.

7872 mg/kg (rat).

No further relevant information available.

No further relevant information available.

ECOLOGICAL INFORMATION 12.

12.1 **Ecotoxicity:-**

No further relevant information available.

12.2 Persistence/degradability:-

No further relevant information available.

Bioaccumulative potential:-12.3

No further relevant information available.

Mobility in soil:-12.4

No further relevant information available.

12.5 Other adverse effects:-

No further relevant information available.

Additional ecological information / General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects:-12.6

No further relevant information available.

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DISPOSAL CONSIDERATIONS 13.

13.1 Disposal methods:-

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.

TRANSPORT INFORMATION 14.

UN number ADR / IMDG / IATA:-UN1247

UN proper shipping name or technical name:-

ADR: 1247 METHYL METHACRYLATE MONOMER,

STABILIZED

IMDG, IATA: METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class(es):

Label:

Packaging group:

EMS Number:

Environmental hazards: Special precautions for user:

Danger code:

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Additional information - ADR:-

Limited quantities: **Transport category:**

Hazchem or emergency action code:

3 (F1) Flammable liquids

3

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Not applicable.

Warning: Flammable liquids. 339

F-E. S-D.

Not applicable.

LQ4 2

D/E

3 (F1) Flammable liquids.

15. **REGULATORY INFORMATION**

Tunnel restriction code:

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

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

OTHER INFORMATION 16.

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.

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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.

Disclaimer:-

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Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

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^{*} Data compared to the previous version altered