

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Ivocron Powder  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 5.11.2010      **Version :** 1.0.0  
**Print date :** 5.11.2010

## 01. Identification of substance, preparation and company

**Product name :** Ivoclar Vivadent SR Ivocron Powder  
**Use of the substance / preparation :** Crowns- and bridges material  
**Manufacturer/Supplier :** Ivoclar Vivadent AG  
**Street/P.O.Box :** Benderstrasse 2 FL-9494  
**Country code/Postal code/Town/City :** D-Schaan Fürstentum Liechtenstein  
**Telephone :** +423/235 35 35  
**Telefax :** +432/235 33 60  
**Distributor :** Ivoclar Vivadent P/L (Australia), 1-5 Overseas Drive, Noble Park North, Victoria 3174  
Phone No.: +61-3 9795 9599, Tele fax No.: +61-3 9795 9645  
**Emergency information :** Poisons Information Centre: Dial 13 11 26  
24 hours a day, 7 days a week Australia wide

## 02. Hazards identification

### Statement of Hazardous Nature

This product is not classified as: Hazardous according to criteria of National Occupational Health and Safety Commission.  
Non-Dangerous Goods according to ADG.

### Hazard designation

Dust generation  
Classification : Not classified  
ADG Classification: not classified  
UN Number:

### Particular information pertaining specific risk for human and environment

Uncured material: May cause sensitization by skin contact. Direct contact may cause eye and skin irritation.

## 03. Composition/information on ingredients

### Chemical characterization

Powder of polymethylmethacrylate, pigments and catalysts

### Hazardous components

CAS No. 94-36-0 < 1 % Benzoylperoxide Xi: Irritant. R36: Irritating to eyes. R43: May cause sensitisation by skin contact.

### Hazards identification

Dust generation

## 04. First-aid measures

### General

Immediately remove all contaminated clothing.

### After inhalation

Let in fresh air. Call a doctor, should the air passages be affected.

### After skin contact

Flush with plenty of water.

### After eye contact

Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

### After ingestion

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Drink plenty of water. Do not induce vomiting. Contact a doctor immediately.

## 05. Fire-fighting measures

### **Suitable extinguishing media**

Water fog, carbon dioxide, foam, dry chemicals, Extinguishing powder.

### **Unsuitable extinguishing media**

Do not use direct water stream.

### **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

Cool containers in the vicinity of the blaze using a water spray.

### **Special protective equipment**

When extinguishing fires, use breathing apparatus with an independent source of air.

## 06. Accidental release measures

### **Personal precautions**

Wear suitable protective clothing, gloves and eye/face protection.

### **Environmental precautions**

Prevent from flowing into surface water/ground water.

### **Methods for cleaning up/collecting**

Take up with a mechanical source and proceed according to the waste disposal regulations. 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.

### **Additional information**

Prevent skin and eye contact. Clean area with large amounts of water. Clean up with absorbent material.

## 07. Handling and storage

### **Information for safe handling**

Containers to be opened and handled with care. Make sure that ventilation is adequate. Only adequately trained personnel should handle this product. Keep out of reach of children. Usual hygienic measures for dental practice

### **Information about protection against explosions and fires**

No anti-explosion measures necessary.

### **Requirements to be met by storerooms and containers**

Keep only in the original container. Store at 2-28 °C / 36-82 °F Do not store in open sunshine. Keep away from heat source.

### **Information about separation of incompatible products**

Store the foodstuffs separately.

## 08. Exposure controls and personal protection

### **Additional information about engineering measures**

ACGIH (USA) Threshold Limit Value (TLV) is 10 mg/m<sup>3</sup> TWA

(Time Weighted Average)-8 hours.

Hygienists, USA) Threshold Limit Value (TLV) is 100 ppm (Ceiling).

Lower: Vol%

Upper: Vol%

### **Components with critical values that require monitoring at the workplace (exposure limits)**

Specification : TWA (AUS)

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Value :                      MAK ml/m<sup>3</sup> (ppm) mg/m<sup>3</sup>

## Personal protective equipment

Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff.. Avoid contact with skin and eyes. Respiratory protection

## Respiratory protection

Provide for good ventilation. In poorly ventilated areas, use air-purifying respiratory protection apparatus

## Hand protection

Short-term exposure (< 30 min): 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). 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. Solvent resistant gloves.

## Eye protection

Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337). Eye wash fountain should be located in immediate work area.

## Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** Powder  
**Colour :** Off White to cream -yellowish  
**Odour :** Low

### Relevant safety data

<b>Melting point / range :</b>	( 1013 hPa )		Not determined	°C	
<b>Boiling point / range :</b>	( 1013 hPa )	ca.	Not determined	°C	
<b>Flash point :</b>			>250	°C	DIN 51755
<b>Ignition temperature :</b>			>400	°C	
<b>Viscosity</b>			Not measured	mPas	
<b>Vapour pressure</b>			Not applicable	mbar	
<b>Density :</b>	( 20 °C )		1.2	g/cm <sup>3</sup>	
<b>Solubility in water :</b>	( 20 °C )		Not determined	g/l.	
<b>pH value :</b>			Not determined		

## 10. Stability and reactivity

### Conditions to avoid

Polymerisation with heat build-up may occur. In the presence of radical initiators (e.g. peroxides).

### Materials to avoid

None

### Hazardous decomposition products

Product may decompose at elevated temperatures generating vapours which could be irritating (Methylmethacrylate).None, if used in accordance to instructions.

## 11. Toxicological information

### Toxicological tests

Copolymer: The oral LD50 for rats is > 10'000 mg/kg.  
Benzoylperoxide: The oral LD50 for rats is > 7'710 mg/kg.  
Titanium dioxide: The oral LD50 for rats is > 20'000 mg/kg.

### Primary irritant effect

Avoid breathing dust.  
May rarely cause an allergic reaction in susceptible people.  
No adverse effects anticipated by this route of exposure incidental to

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proper industrial handling.

## Experience on practice

Dust may irritate eyes.

## 12. Ecological information

### Details on elimination (persistence / degradability)

#### Abiotoxic elimination

No data available.

#### Biological degradation / elimination

No data available.

### Fate in environmental compartments

No ecological problems to be anticipated if properly handled and used. Nearly insoluble

### Ecotoxicological effects

#### Performance in sewage-treatment plants

The product must not enter effluent, ground water, surface water or the soil. No ecological problems to be anticipated if properly handled and used. non soluble

## 13. Disposal considerations EU waste key 20 01 39

### Product

Concentrate: The cleaned-up material must be disposed of in accordance with Federal, State or Local regulations.

### Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## 14. Transport information

### Land transport ADG

#### Classification

<b>Class :</b>	- ADR	RID
	UN Number	Kemler Number
	Packing Group	
	shipping name	

### Maritime transport IMDG

#### Classification

<b>IMDG-Code :</b>	- ADNR	IMDG
	EMS UN Number	
	Packing Group	
	shipping name	MFAG
	EMS F-E, S-D	

### Air transport ICAO-TI and IATA-DGR

#### Classification

<b>Class :</b>	ICAO / IATA-DGR	
	Class	
	Proper shipping name	
	Packing Instructions	
		Packing Instructions
		Packing Group
	UN Number	
	Packing Group	
	Instructions	
	Passenger airplane	
	max	

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Cargo Airplane Max  
Further information  
allowed by mail.  
Labels

## 15. Regulatory information

### Classification

Danger symbol and danger designation



Xi: Irritant. Contains Benzoylperoxide

### Hazard-determining components of labelling

None : MAK value ml/m<sup>3</sup> (ppm) mg/m<sup>3</sup>

### R-phrases

43 May cause sensitisation by skin contact.  
36/37/38 Irritating to eyes, respiratory system and skin.

### S-phrases

2 Keep out of the reach of children.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .  
28  
29 Do not empty into drains  
33 Take precautionary measures against static discharge.  
37/39 After contact with skin, wash immediately with plenty of water and soap.  
Wear suitable gloves and eye/face protection.

## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

This is a medical device classified under the requirements of EU and TGA .

### Contact

Dr. Peter Lobo

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.