

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Solarcast 20  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 30.01.2014      **Version :** 1.0.1  
**Print date :** 30.01.2014

## 01. Identification of substances, preparation and company

**Product name:** Ivoclar Vivadent Solarcast 20  
**Use of the substance / preparation:** Crown & Bridge Alloy  
**Manufacturer / Supplier:** Ivoclar Vivadent Inc  
**Street / P O Box:** 175 Pineview Drive  
**Country code / Postal Code / Town / City:** Amherst NY 14228 USA  
**Telephone:** + 716 691 0010  
**Telefax:** + 423 235 35 35 or + 423 373 40 40  
**Distributor:** Ivoclar Vivadent Pty Ltd  
1 – 5 Overseas Drive  
Noble Park North VIC 3174  
Australia  
**Telephone:** + 61 3 9795 9599  
**Telefax:** + 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 classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.

### Hazard designation

Classification: Not Classified

ADG Classification: Not Classified

UN Number: Not Classified

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

#### R phrases

R36/37/38 | Irritating to eyes, respiratory system and skin.

R43 | May cause sensitisation by skin contact.

#### S phrases

S2 | Keep out of the reach of children.

S9 | Keep container in a well-ventilated place.

S24/25 | Avoid contact with skin and eyes.

S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29 | Do not empty into drains.

S37/39 | After contact with skin, wash immediately with plenty of water and soap. Wear suitable gloves and eye/face protection.

## 03. Composition / information on ingredients

### Chemical characterisation

Mixture of Mixture made of Gold 20.0%, Silver 40.0%, Copper 10.0%, Palladium 15.0%, Indium 11.0%, Zinc 2.0% and Tin 2.0%

### Hazardous components

Avoid breathing in grinding dust and vapours.

Melted material may cause burns.

### Other ingredients determined not be hazardous

Gold (Au)	CAS-NO: 7440-57-5	20.0%
Silver (Ag)	CAS-NO: 7440-22-4	40.0%
Copper (Cu)	CAS-NO: 7440-50-8	10.0%
Palladium (Pd)	CAS-NO: 7440-05-3	15.0%
Indium (In)	CAS-NO: 7440-74-6	2.0%
Zinc (Zn)	CAS-NO: 7440-66-6	2.0%
Tin (Sn)	CAS-NO: 7440-31-5	2.0%

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**Dangerous component / Risk phrases:**

**R phrases**

R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.

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**04. First-aid measures**

**General**

Immediately remove all contaminated clothing.

**After inhalation**

Let in fresh air. Remove to fresh air. Seek medical assistance immediately should the air passage be affected.

**After skin contact**

After contact with skin, wash immediately with plenty of water and soap. Wear suitable gloves and eye/face protection.

**After eye contact**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Drink plenty of water. Do not induce vomiting. Seek medical assistance immediately.

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**05. Fire-fighting measures**

**Suitable extinguishing media**

Not combustible under normal conditions. Adapt extinguishing measures to suit the environment. CO<sub>2</sub>, powder and water spray.

**Unsuitable extinguishing media**

Waterjet. Do not use direct water stream.

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

None known.

**Special protective equipment**

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

Firefighters should wear full protective clothing including self-contained breathing apparatus.

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**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. Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

**Methods for cleaning up / collecting**

Do not allow to flow off into the drains, surface water / ground water.

Take up with a mechanical source and precede according to the water disposal regulations.

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

**Additional information**

Prevent skin and eye contact. Remove according to regulations.

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**07. Handling and storage**

**Information for safe handling**

Containers to be opened and handled with care. Make sure ventilation is adequate. Use only in a well-ventilated area.

Only adequately trained personnel should handle this product.

Keep out of reach of children.

When using – do not eat, drink or smoke.

**Information about protection against explosions and fires**

No anti-explosions measures necessary.

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

Store only in original container.

Store in a dry, well-ventilated area in the original container. Keep container tightly closed.

Store at 2 – 28°C / 36 – 82°F. Do not store in open sunshine. Keep away from heat source.

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## Information about separation of incompatible products

Store foodstuffs separately.

## 08. Exposure controls and personal protection

### Additional information about engineering measures

None

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

Specifications: TWA (AUS)  
 Value: MAK 0.1mg/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

Provide for good ventilation. Avoid vapour or spray mist. Use in a well-ventilated area.

### Hand protection

Short-term exposure (<30mins): disposable gloves, eg: nitrile rubber, material thickness 0.1mm (Australian Standard 2161). Long-term exposure (Level 6: < 480min): protective gloves, eg: nitrile rubber, material thickness 0.7mm (Australian Standard 2161).

### Eye protection

Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337). An eyewash fountain should be located in the immediate working area. Avoid contact with eyes. Wear eye protection when mixing or using. Use approved close fitting safety goggles and / or visor for splash protection.

### Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

Form:	Solid
Colour:	Yellow
Odour:	Odourless

### Relevant safety data

Melting point/range:	(1013 hPa)		815-875	°C	DIN 51755
Casting point/range:	(1013 hPa)	ca.	930-990	°C	
Flash point:			n/a	°C	
Ignition temperature			n/a	°C	
Viscosity:			n/a	mPas	
Vapour pressure:			n/a	mbar	
Density:	(20°C)		10.8	g/cm <sup>3</sup>	
Solubility in water:	(20°C)		Not soluble	g/l	
pH value:			n/a		

## 10. Stability and reactivity

### Conditions to avoid

Avoid excessive heat and direct sunlight.

### Materials to avoid

None is used in accordance to instructions.

### Hazardous decomposition products

None.

## 11. Toxicological information

### Toxicological tests

Alloy – non-cytotoxic, non-mutagenic, non-irritant, non-sensitiser.

### Primary irritant effect

Prolonged or repeated exposure may cause drying or irritation of the skin.

Ingestion and prolonged exposure to skin and eyes should be avoided, as should inhalation of any generated vapours

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### Sensitisation

Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

### Experience on practice

Excessive exposure may cause eye and respiratory irritation.

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## 12. Ecological information

### Details on elimination (persistence / degradability)

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

### Abiotical 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.

### Ecotonical effects

### Performance in sewage/treatment plants

The product must not enter effluent, ground water, surface water or the soil.

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## 13. Disposal consideration

### Product

Concentrate Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

### Contaminated packaging

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

Responsibility for proper waste disposal rests with the generator of the waste.

Dispose of any waste material (including containers) in accordance with all applicable Local, State and Federal government regulations regarding waste management methods

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## 14. Transport information

### Land transport ADG

Classification: Not classified

ADG Class: Not classified

UN Number: Not classified

Packing Group: Not classified

UN proper shipping name: Not classified

### Maritime transport IMDG

Classification: Not classified

ADNR Class: Not classified

UN Number: Not classified

Packing Group: Not classified

UN proper shipping name: Not classified

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

Classification: Not classified

ICAO/IATA Class: Not classified

UN Number: Not classified

ADR/RID: Not classified

Packing Group: Not classified

Packing Instructions: Not classified

UN proper shipping name: Not classified

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## 15. Regulatory information

### Danger symbol and danger designation

None

### Hazard-determining components of labelling

None

### R phases

R36/37/38 | Irritating to eyes, respiratory system and skin.

R43 | May cause sensitisation by skin contact.

### S phrases

S2 | Keep out of the reach of children.

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## 16. Other information

### Processing instructions / technical data sheets

Please observe the label / directions for use.

### Further information

**Important Note:** The above-mentioned data correspond to our present state of knowledge and experience as of the date noted and are for use only as a guide in connection with occupational health and safety. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on the properties of the product.

We make no representation, guarantee or warranty, express or implied, as to the accuracy, reliability or completeness of the information and assume no responsibility for injury damage or loss resulting from the use of the material.

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

### Contact

Dr Peter Lobo - Ivoclar Vivadent Pty Ltd 1 – 5 Overseas Drive Noble Park North VIC 3174 Australia

Tel: + 61 3 9795 9599

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

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