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## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME**

DENTSPLY INTERGRITY TEMPORARY CROWN &amp; BRIDGE MATERIAL

**PRODUCT USE**

Dental restoration.

**SUPPLIER**

Company: DENTSPLY (AUSTRALIA) PTY LTD

Address:

11- 21 Gilby Road

Mount Waverley

VIC 3149

AUSTRALIA

Telephone: 1300 55 29 29

Emergency Tel: 1300 55 29 29 (Hours of operation:

Monday - Friday 9:00 am - 5:00 pm EST; General

information only)

Fax: +61 3 9538 8260

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## Section 2 - HAZARDS IDENTIFICATION

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**STATEMENT OF HAZARDOUS NATURE****HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.****POISONS SCHEDULE**

None

**RISK**

- Irritating to eyes and skin.
- May cause SENSITISATION by skin contact.

**SAFETY**

- Avoid contact with skin.
- Wear eye/face protection.
- To clean the floor and all objects contaminated by this material use water and detergent.
- In case of contact with eyes rinse with plenty of water and contact Doctor or Poisons Information Centre.
- If swallowed IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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NAME	CAS RN	%
barium glass		>35
silica amorphous, fumed	68611-44-9	<10
glycol methacrylate		>35
multifunctional methacrylates		<15
malonylurea derivative		<1

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## Section 4 - FIRST AID MEASURES

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**SWALLOWED**

- - Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**EYE**

- If this product comes in contact with the eyes:
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

**SKIN**

- If skin or hair contact occurs:
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

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Section 4 - FIRST AID MEASURES

### INHALED

- - If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

### NOTES TO PHYSICIAN

- Treat symptomatically.

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## Section 5 - FIRE FIGHTING MEASURES

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### EXTINGUISHING MEDIA

- - Foam.
- Dry chemical powder.

### FIRE FIGHTING

- - Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.

### FIRE/EXPLOSION HAZARD

- - Combustible.
  - Slight fire hazard when exposed to heat or flame.
- Combustion products include: carbon dioxide (CO<sub>2</sub>), hydrogen chloride, phosgene, sulfur oxides (SO<sub>x</sub>), other pyrolysis products typical of burning organic material.
- May emit corrosive fumes.

### FIRE INCOMPATIBILITY

- - Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

### HAZCHEM: None

### PERSONAL PROTECTION

- Glasses:  
Full face- shield.
- Gloves:  
PVC chemical resistant type.
- Respirator:  
Particulate

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### MINOR SPILLS

- - Clean up all spills immediately.
- Avoid contact with skin and eyes.

### MAJOR SPILLS

- Minor hazard.
- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

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## Section 7 - HANDLING AND STORAGE

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### PROCEDURE FOR HANDLING

- - Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.

### SUITABLE CONTAINER

- - Metal can or drum
- Packaging as recommended by manufacturer.

### STORAGE INCOMPATIBILITY

- - Avoid reaction with oxidising agents.
- for multifunctional acrylates:
- Avoid exposure to free radical initiators (peroxides, persulfates) , iron, rust, oxidisers, and strong acids and strong bases.
  - Avoid heat, flame, sunlight, X-rays or ultra-violet radiation.

### STORAGE REQUIREMENTS

- - Store in original containers.
  - Keep containers securely sealed.
- DO NOT store above 50 deg. C.

continued...

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**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**EXPOSURE CONTROLS**

Source	Material	TWA mg/m <sup>3</sup>	Notes
Australia Exposure Standards	silica amorphous, fumed (Silica - Amorphous Fume (thermally generated)(respirable dust) (g))	2	(see Chapter 14)

**PERSONAL PROTECTION****RESPIRATOR**

Particulate

**EYE**

- - Chemical goggles.
- Full face shield may be required for supplementary but never for primary protection of eyes.

**HANDS/FEET**

- - Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber.

**NOTE:**

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

**OTHER**

- - Overalls.
- P.V.C. apron.

**ENGINEERING CONTROLS**

- General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances.

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**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE**

White to yellow paste with little odour; does not mix with water.

**PHYSICAL PROPERTIES**

Does not mix with water.

Sinks in water.

Molecular Weight: Not Applicable  
Melting Range (°C): Not Applicable  
Solubility in water (g/L): Immiscible  
pH (1% solution): Not Applicable  
Volatile Component (%vol): Not Available  
Relative Vapour Density (air=1): >1  
Lower Explosive Limit (%): Not Available  
Autoignition Temp (°C): Not Available  
State: Non Slump Paste

Boiling Range (°C): 101  
Specific Gravity (water=1): 1.4  
pH (as supplied): Not Applicable  
Vapour Pressure (kPa): Negligible  
Evaporation Rate: >1  
Flash Point (°C): >100  
Upper Explosive Limit (%): Not Available  
Decomposition Temp (°C): Not Available  
Viscosity: Not Available

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**Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION**

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**CONDITIONS CONTRIBUTING TO INSTABILITY**

- - Elevated temperatures.
  - Presence of open flame.
- For incompatible materials - refer to Section 7 - Handling and Storage.*

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**Section 11 - TOXICOLOGICAL INFORMATION**

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**POTENTIAL HEALTH EFFECTS****ACUTE HEALTH EFFECTS**

- Irritating to eyes and skin.

**CHRONIC HEALTH EFFECTS**

- May cause SENSITISATION by skin contact.

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Section 11 - TOXICOLOGICAL INFORMATION

### TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.

#### SILICA AMORPHOUS, FUMED:

- unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Oral (rat) LD50: >5000 mg/kg

- For silica amorphous:

When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body.

#### IRRITATION

Nil Reported [Wacker]

## Section 12 - ECOLOGICAL INFORMATION

No data

#### Ecotoxicity

Ingredient

Persistence:  
Water/Soil

Persistence:  
Air

Bioaccumulat  
ion

Mobility

Dentsply Intergrity Temporary Crown  
& Bridge Material  
silica amorphous, fumed

No data

No data

## Section 13 - DISPOSAL CONSIDERATIONS

- - Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.

## Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None (ADG7)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADG7, UN, IATA, IMDG

## Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

#### REGULATIONS

Regulations for ingredients

**silica amorphous, fumed (CAS: 68611-44-9,112945-52-5,60842-32-2) is found on the following regulatory lists;**

"Australia Inventory of Chemical Substances (AICS)", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD Representative List of High Production Chemicals"

No data for Dentsply Intergrity Temporary Crown & Bridge Material (CW: 4613-53)

## Section 16 - OTHER INFORMATION

#### INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name

silica amorphous, fumed

CAS

68611- 44- 9, 112945- 52- 5, 60842- 32- 2

- Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net/references](http://www.chemwatch.net/references).

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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**Section 16 - OTHER INFORMATION**

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*This is the end of the MSDS.*