# **Dentsply Intergrity Temporary Crown & Bridge Material**

**Dentsply Sirona Pty Ltd** 

Chernwatch: 4613-53 Version No: 4.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Gode: 2

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# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier	
Product name	Denteply Intergrity Temporary Crown & Bridge Material
Synonyms	Not Available
Other means of identification	Not Available
Relevant identified uses of th	e substance or mixture and uses advised against
Relevant identified uses	Dental restoration.
Registered company name	Dentsply Sirona Pty Ltd
Details of the supplier of the	
Address	11-21 Gilby Road Mount Waverley VIC 3149 Australia
Telephone	1300 55 29 29
Fax	1300 55 31 31
Website	www.dentsply.com.au
Email	clientservices@dentsplysirona.com
Emergency telephone numbe	
Association / Organisation	Not Available
Emergency telephone numbers	1300 55 29 29
Other emergency telephone numbers	Not Available

#### **SECTION 2 HAZARDS IDENTIFICATION**

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

## CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	1 11110		
Toxicity	0		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	1 100		3 = High
Chronic	2		4 = Extreme

Poisons Schedule	Not Applicable	
	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

## Label elements

Hazard plctogram(s)



SIGNAL WORD	WARNING	
Hazard statement(s)		
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H317	May cause an ellergic skin reaction.	
Precautionary statement(s) President	revention	

Wear protective gloves/protective clothing/eye protection/face protection. P280

P261	Avoid breathing mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

### Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin imitation or rash occurs: Get medical advice/attention.	

# Precautionary statement(s) Storage

Not Applicable

## Precautionary statement(s) Disposal

•	
P501	Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name	
Not Avallable	>35	barlum glass	
68611-44-9	<10	silica amorphous, fumed	
Not Available	>35	glycol methacrylate	
Not Available	<15	multifunctional methacrylates	
Not Avallable	<1	malonylurea derivative	

# **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete imgetion of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing untit advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
If skin or hair contact occurs:  ▶ Flush skin and hair with running water (and soap if available).  ▶ Seek medical attention in event of irritation.
<ul> <li>If furnes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
<ul> <li>immediately give a glass of water.</li> <li>First ald is not generally required. If in doubt, contact a Poisons information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5 FIREFIGHTING MEASURES

## Extinguishing media

- ► Foam.
- Dry chemical powder.
  BCF (where regulations permit).
  Carbon doxide.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic furnes of carbon monoxide (CO).</li> <li>Combustion products include:</li> </ul>

hydrogen chloride
hydrogen chloride
phosgene
sulfur oxides (SOx)
other pyrolysis products typical of burning organic material.
May emit corresive furnes.

HAZCHEM Not Applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills Immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear Impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> </ul>
Major Spilla	Minor hazard.  > Clear area of personnel.  > Alert Fire Brigade and tell them location and nature of hazard.  > Control personal contact with the substance, by using protective equipment as required.

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

#### **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling		
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective ciothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>DO NOT store above 50 deg. C.</li> </ul>	

## Conditions for safe storage, including any incompatibilities

Sultable container	Metal can or drum     Packaging as recommended by manufacturer.     Check all containers are clearly labelled and free from leaks.
Storage Incompatibility	<ul> <li>Avoid reaction with oxidising agents</li> <li>for multifunctional acrylates:</li> <li>Avoid exposure to free radical initiators (peroxides, persulfates), iron, rust, oxidisers, and strong acids and strong bases.</li> <li>Avoid heat, flame, sunlight, X-rays or ultra-violat radiation.</li> <li>Storage beyond expiration date, may initiate polymerisation. Polymerisation of large quantities may be violent (even explosive)</li> </ul>

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

I EMERGENCY LIMITS

EMERGENCY LIMITS Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
silica amorphous, furned	Silica, amorphous furned	18 mg/m3	100 mg/m3	630 mg/m3
Ingredient	Original IDLH		Revised IDLH	
barlum glass	Not Avallable		Not Available	
silica amorphous, furned	3000 mg/m3		Not Available	
glycol methacrylate	Not Available		Not Available	
multifunctional methacrylates	Not Available		Not Available	
matonylurea derivative	Not Available		Not Available	

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection,

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

## Personal protection











Eye and face protection

▶ Chemical goggles,

- Full face shield may be required for supplementary but never for primary protection of eyes.
- ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task

Skin protection

See Hand protection below

- > Wear chemical protective gloves, e.g. PVC. ► Wear safety footwear or safety gumboots, e.g. Rubber
- NOTE:

Hands/feet protection

- ▶ 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.

**Body protection** 

See Other protection below

Other protection

- Overalls. P.V.C. apron.
- Barrier cream.

Thermal hazards

Not Available

## Respiratory protection

Particulate, (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important,

Regulred minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	-AUS / Class1 P2	12
up to 50	1000		-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	-2 P2
up to 100	10000		-3 P2
100+			Airline**

<sup>\* -</sup> Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	White to yellow paste with little odour, doe	es not mix with water,	
Physical state	Non Slump Paste	Relative density (Water = 1)	1.4
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
initial boiling point and boiling range (°C)	101	Molecular welght (g/mol)	Not Applicable
Flash point (°C)	>100	Taste	Not Available
Evaporation rate	>1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	Not Available

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	Elevated temperatures.     Presence of open flame.     Product is considered stable.     Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

caumana.v	The material is not thought to produce adverse health of	effects or irritation of the respiratory tract (	as classified by EC Directives using animal models)	
Inhaled	Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that sultable control measures be used in an occupational setting.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.			
Skin Contact	This material can cause inflammation of the skin on con- The material may accentuate any pre-existing dermatitis			
Eye	This material can cause eye irritation and damage in so	me persons.		
Chronic	Skin contact with the material is more likely to cause a s	ensitisation reaction in some persons corr	npared to the general population.	
Dentsply Intergrity Temporary	TOXICITY	IRRITATION		
Crown & Bridge Material	Not Available	Not Available		
	TOXICITY	IRRITATION		
sliica amorphous, fumed	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Not Available		
Legend:	1. Velue obtained from Europe ECHA Registered Subst dete extracted from RTECS - Register of Toxic Effect of		from manufacturer's SDS. Unless otherwise specified	
SILICA AMORPHOUS, FUMED	For silica amorphous: When experimental animals inhale synthetic amorphous majority of SAS is excreted in the faeces and there is littl without modification in animals and humans. SAS is not of For silane, dichloro-methyl-, reaction products with silics from Inflammatory changes in the airway when exposure enlarged lymph nodes. Treated silica does	le accumulation in the body. Following absexpected to be broken down (metabolised) a: Acute oral toxicity is very low for treated e ended. Repeated inhalation in animals ca	sorption across the gut, SAS is eliminated via urine ) in mammals. I silica. Animals who inhaled these substances recovere aused inflammation and scarring of the lungs with	
Acute Toxicity	◊	Carcinogenicity	0	
Acute Toxicity Skin Irritation/Corrosion	◊	Carcinogenicity Reproductivity	<u> </u>	
colle-portal pwdp/#/		0.0000000000000000000000000000000000000		
Skin Irritation/Corrosion	<b>v</b>	Reproductivity	◊	

Legend:

🗶 – Data available but does not fill the criteria for classification

✓ – Data available to make classification

## **SECTION 12 ECOLOGICAL INFORMATION**

## Toxicity

Dentsply Intergrity Temporary Crown & Bridge Material	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
silica amorphous, fumed	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	NOEC	24	Crustacea	>=10000mg/L	1 1

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all Ingredients
Bloaccumulative pot	ential	
Ingredient	Bioaccumulation	
	No Data available for all ingredients	
Mobility in soil		
Ingredient	Mobility	
	No Data available for all ingredients	

### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal

- ► Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Management Authority for disposal.
- ► Bury residue in an authorised landfill.
- > Recycle containers if possible, or dispose of in an authorised landfill.

#### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

## **SECTION 15 REGULATORY INFORMATION**

Safety, health and environmental regulations / legislation specific for the substance or mixture

SILICA AMORPHOUS, FUMED(68611-44-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS	)	
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National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (silica amorphous, furned)
Chine - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (silica amorphous, fumed)
Korea - KECI	Y
New Zealand - NZioC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory  N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

#### Other Information

ingredients with multiple cas numbers

Name	CAS No	
silica amorphous, furned	88611-44-9, 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 Chernwatch Classification committee using available literature references.

The 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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hyglenists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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