

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071734383

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070357343 070357350 071733450 071733468 071733476 071733484 071733492 071733500 071734102 071734110  
071734128 071734136 071734144 071734151 071734169 071734334 071734342 071734359 071734367 071734375  
071734391

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

071733385

ACTIO MSDS ID 29148

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## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

566398

**Product Name:**                   **INTEGRITY Temporary Crown & Bridge Material**  
**Synonyms:**                        INTEGRITY™ Temporary Crown & Bridge Material  
**CAS Number:**                    N. A.  
**Manufacturer MSDS.:**           566398  
**Manufacturer Name:**           Dentsply/Caulk  
**Address:**                         38 West Clarke Avenue  
   Milford DE 19963-1805  
**General Use:**                    Product Use (for Canada): Temporary Crown & Bridge Material  
**Email:**                            http://www.caulk.com  
**Business Phone:**               (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)  
**Emergency Phone:**           (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)  
**Revision Date:**                 08/15/06  
**Trade Names:**                 INTEGRITY™ Temporary Crown & Bridge Material  
**Comments:**                     Grades or Minor Variant Identities: N. A.  
**Chemical Name**                 Dimethacrylate Resins  
**Product Codes:**               566398

**NFPA**

1  
1       0

**HMIS**

HEALTH	
FIRE	
REACTIVITY	
PPE	

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## SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

566398

Ingredient Name	CAS#	Ingredient Percent
Barium boron alumino silicate glass EC Index Number:               1	65997-17-3	< than 50 by Weight
Hydrophobic Amorphous Fumed Silica EC Index Number:               1	68611-44-9	< than 10 by Weight
Polymerizable dimethacrylate resins EC Index Number:               1	N.E.	< than 60 by Weight

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## SECTION 3 : HAZARDS IDENTIFICATION

566398

**Emergency Overview:**           Material is irritating to eyes, respiratory system and skin.  
**Environment Hazards:**         Do not allow to enter sewers/ surface or ground water.

**Applies to All Ingredients :****Potential Health Effects:**

<b>Eye Contact:</b>	Signs and Symptoms: Material can cause irritation. ; Single, Repeated, or Lifetime Exposure: Single ; Severity (Mild, Moderate, Severe): Moderate ; Acute and Chronic Health Effect(s): Irritation and possible corneal damage ; Target Organ(s): N. A.
<b>Skin Contact:</b>	Signs and Symptoms: Material may be an irritant ; Single, Repeated, or Lifetime Exposure: Single & Repeated ; Severity (Mild, Moderate, Severe): Moderate ; Acute and Chronic Health Effect(s): Irritation or possible allergic response. Severe allergic response may result in breathing difficulties. ; Target Organ(s): N. A.
<b>Inhalation:</b>	Signs and Symptoms: N. A. ; Single, Repeated, or Lifetime Exposure: N. A. ; Severity (Mild, Moderate, Severe): N. A. ; Acute and Chronic Health Effect(s): N. A. ; Target Organ(s): N. A.
<b>Ingestion:</b>	Signs and Symptoms: Material is probably not harmful if swallowed ; Single, Repeated, or Lifetime Exposure: N. A. ; Severity (Mild, Moderate, Severe): Mild ; Acute and Chronic Health Effect(s): N. A. ; Target Organ(s): N. A.
<b>OSHA Designation:</b>	No All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
<b>NTP Designation:</b>	Not listed
<b>IARC Designation:</b>	Not listed
<b>Other Potential Health Effects:</b>	Signs and Symptoms: N. A. ; Single, Repeated, or Lifetime Exposure: N. A. ; Severity (Mild, Moderate, Severe): N. A. ; Acute and Chronic Health Effect(s): N. A. ; Target Organ(s): N. A.
<b>Aggravation of Pre-Existing Conditions:</b>	Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products.

[To Top of page](#)**SECTION 4 : FIRST AID MEASURES**

566398

<b>Eye Contact:</b>	First Aid Instructions: Rinse opened eye for several minutes under running water. If symptoms persist consult physician ; Immediate Medical Attention: N. A. ; Delayed Effects: N. A.
<b>Skin Contact:</b>	First Aid Instructions: Immediately wash with soap and water and rinse thoroughly ; Immediate Medical Attention: N. A. ; Delayed Effects: N. A.
<b>Inhalation:</b>	First Aid Instructions: Supply fresh air, consult physician if symptoms persist ; Immediate Medical Attention: N. A. ; Delayed Effects:
<b>Ingestion:</b>	First Aid Instructions: If symptoms persist consult physician ; Immediate Medical Attention: N. A. ; Delayed Effects: N. A.
<b>Note to Physicians:</b>	N. A.

[To Top of page](#)**SECTION 5 : FIRE FIGHTING MEASURES**

566398

<b>Flash Point:</b>	N. A.
<b>Upper Flammable or Explosive Limit:</b>	N. A.
<b>Lower Flammable or Explosive Limit:</b>	N. A.
<b>Auto Ignition Temperature:</b>	N. A. Product will not autoignite.
<b>Flammability Class:</b>	N. A.
<b>Extinguishing Media:</b>	CO 2, extinguishing powder, foam carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Unsuitable Media:</b>	Water with full jet.
<b>Flame Propagation in Air:</b>	Rate (for Solids) N. A.
<b>Fire Fighting Instructions:</b>	Firefighters should wear self-contained respiratory protective devices.
<b>Additional Information:</b>	N. A.
<b>Unusual Fire Hazards:</b>	Formation of toxic, irritating gases is possible from the decomposition of the dimethacrylate resins. Product does not present an explosion hazard.

Properties Contributing to Fire Intensity N. A.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

566398

**Spill Cleanup Measures:** Wear protective clothing and scoop up bulk material and place in a labeled plastic or metal container. Avoid gross skin contact to minimize the possibility of contact dermatitis to susceptible persons. Ensure adequate ventilation.

**Spill/Release Reporting:** N. A.

**Comments:** Evacuation Procedures: N. A.; Special Instructions: N. A.

**Containment Techniques** Material is a paste and as such will not flow.

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## SECTION 7 : HANDLING and STORAGE

566398

**Handling:** Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

**Storage:** Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages.

**Hygiene Practices:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.

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## SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

566398

**Engineering Controls:** N. A.

**Ventilation System:** None required during normal intended use of this product

**Skin Protection Description:** Personal Protective Equipment (PPE) for Normal Use: Protective work clothing ; PPE for Emergencies: N. A.

**Hand Protection Description:** Personal Protective Equipment (PPE) for Normal Use: The glove material has to be impermeable and resistant to the product. ; PPE for Emergencies: N. A.

**Eye/Face Protection:** Personal Protective Equipment (PPE) for Normal Use: Safety Glasses ; PPE for Emergencies: N. A.

**Respiratory Protection:** Personal Protective Equipment (PPE) for Normal Use: Not Required ; PPE for Emergencies: N. A.

**Other Protective:** N. A.

**Protective Measures During Repair and Maintenance of Contaminated Equipment** N. A.

### Ingredient Guidelines

**Ingredient:** Barium boron alumino silicate glass

Guideline Information: 10 mg/m<sup>3</sup>

**Ingredient:** Hydrophobic Amorphous Fumed Silica

Guideline Information: 10 mg/m<sup>3</sup>

**Ingredient:** Polymerizable dimethacrylate resins

Guideline Information: N.E.

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## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

566398

**Physical State/Appearance:** Creamy white – yellowish paste, with low odor. Multiple shades.

**Odor:** Characteristic sweet acrylic ester odor.

Physical State:	High Viscosity Liquid (Paste)
pH:	N. A.
Vapor Pressure:	N. A. (mm Hg)
Vapor Density:	N. A. (AIR=1)
Melting Point:	N. A.
Solubility in Water:	Not soluble
Specific Gravity:	1.4 g/cm <sup>3</sup>
Evaporation Point:	N. A. (Butyl Acetate =1)
Other:	N. A.

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## SECTION 10 : STABILITY and REACTIVITY

566398

Chemical Stability:	Stable
Conditions to Avoid:	Hazardous Polymerization: None known ; Stability: None known
Incompatibilities with Other Materials:	Strong Oxidizing materials.
Hazardous Polymerization:	May Not Occur
Hazardous Decomposition Products:	No dangerous decomposition products known if used according to Directions for Use.

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## SECTION 11 : TOXICOLOGICAL INFORMATION

566398

Toxicological Paragraph:	Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant.
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## SECTION 12 : ECOLOGICAL INFORMATION

566398

Ecological Paragraph:	Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.
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## SECTION 13 : DISPOSAL CONSIDERATIONS

566398

Waste Disposal:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations
Properties (Physical/Chemical) Affecting Disposal	Dispose of material as solid waste in a closed container.

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## SECTION 14 : TRANSPORT INFORMATION

566398

DOT Shipping Information:	Other: N. A.
DOT Shipping Name:	Not Regulated
DOT UN Number:	N. A.
DOT Hazard Class:	N. A.
DOT Packing Group:	N. A.
DOT Subpart E Labeling Requirement:	DOT Labels Required (49CFR172.101): N/A
IMO:	IMDG Hazard Labels Required: N/A
IMO Shipping Name:	Not Regulated
IMO Hazard Class:	N/A
IMO UN Number:	N/A
IATA:	IATA Hazard Labels Required: N/A
IATA Shipping Name:	Not Regulated
IATA Hazard Class:	N/A
IATA UN Number:	N/A
Comments:	Do Changes in Quantities, packaging, or shipment method change product classification? No

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## SECTION 15 : REGULATORY INFORMATION

566398

**Applies to all ingredients:**

TSCA 8(b): Inventory Status:	All of the components of this product are listed on the TSCA inventory.
CERCLA Section 103:	This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations
Section 302:	None
Section 313 Toxic Release Form:	This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None
State:	California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.
Canada DSL:	This product is a medical device and not subject to chemical notification requirements.
European International Regulations:	European Community Labeling: Not a dangerous preparation.; European Inventory of New and Existing Chemicals Substances (EINECS): This product is a medical device and not subject to chemical notification requirements.;
Regulatory Notes	Other: N. A.

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## SECTION 16 : ADDITIONAL INFORMATION

566398

**Disclaimer:**

To the best of our knowledge this product does not contain gluten , wheat grains, flaxseed, natural rubber, or natural latex. All components are synthetically produced; none are derived from animal products.

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# Dentsply Intergrity Temporary Crown & Bridge Material

Dentsply Sirona Pty Ltd

Chemwatch Hazard Alert Code: 2

Chemwatch: 4613-53

Version No: 4.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 27/06/2017

Print Date: 10/01/2018

S.GHS.AUS.EN

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

### Product Identifier

Product name	Dentsply Intergrity Temporary Crown & Bridge Material
Synonyms	Not Available
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Dental restoration.
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### Details of the supplier of the safety data sheet

Registered company name	Dentsply Sirona Pty Ltd
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 number

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		
Toxicity	0		0 = Minimum
Body Contact	2		1 = Low
Reactivity	1		2 = Moderate
Chronic	2		3 = High
			4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	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 pictogram(s)	
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SIGNAL WORD	<b>WARNING</b>
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### Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

### Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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## Dentsply Intergrity Temporary Crown & Bridge Material

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

### Precautionary statement(s) Response

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

### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

<b>P501</b>	Dispose of contents/container in accordance with local regulations.
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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

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

## SECTION 4 FIRST AID MEASURES

### Description of first aid measures

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>▶ 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.</li> <li>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
<b>Skin Contact</b>	<p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid 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 dioxide.

### Special hazards arising from the substrate or mixture

<b>Fire Incompatibility</b>	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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### Advice for firefighters

<b>Fire Fighting</b>	<ul style="list-style-type: none"> <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>
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <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 fumes of carbon monoxide (CO).</li> </ul> <p>Combustion products include:</p>



## Dentsply Intergrity Temporary Crown &amp; Bridge Material

	<ul style="list-style-type: none"> <li>, carbon dioxide (CO2)</li> <li>, hydrogen chloride</li> <li>, phosgene</li> <li>, sulfur oxides (SOx)</li> <li>, other pyrolysis products typical of burning organic material.</li> </ul> May emit corrosive fumes.
<b>HAZCHEM</b>	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

<b>Minor Spills</b>	<ul style="list-style-type: none"> <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>
<b>Major Spills</b>	Minor hazard. <ul style="list-style-type: none"> <li>▶ Clear area of personnel.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Control personal contact with the substance, by using protective equipment as required.</li> </ul>

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

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

<b>Safe handling</b>	<ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> </ul>
<b>Other information</b>	<ul style="list-style-type: none"> <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> </ul> <b>DO NOT store above 50 deg. C.</b>

## Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	<ul style="list-style-type: none"> <li>▶ Metal can or drum</li> <li>▶ Packaging as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul>
<b>Storage incompatibility</b>	<ul style="list-style-type: none"> <li>▶ Avoid reaction with oxidising agents 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-violet 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

## EMERGENCY LIMITS


Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
silica amorphous, fumed	Silica, amorphous fumed	18 mg/m3	100 mg/m3	630 mg/m3

Ingredient	Original IDLH	Revised IDLH
barium glass	Not Available	Not Available
silica amorphous, fumed	3000 mg/m3	Not Available
glycol methacrylate	Not Available	Not Available
multifunctional methacrylates	Not Available	Not Available
malonylurea derivative	Not Available	Not Available

Continued...

## Dentsply Intergrity Temporary Crown &amp; Bridge Material

## Exposure controls

<b>Appropriate engineering controls</b>	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.
<b>Personal protection</b>	
<b>Eye and face protection</b>	<ul style="list-style-type: none"> <li>▶ Chemical goggles.</li> <li>▶ Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>▶ 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.</li> </ul>
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	<ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>▶ 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.</li> <li>▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	<ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> </ul>
<b>Thermal hazards</b>	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.

Required 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 / Class 1 P2	-
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**

\* - 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(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), 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

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

Continued...

## Dentsply Interglarity Temporary Crown &amp; Bridge Material

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul style="list-style-type: none"> <li>▶ Elevated temperatures.</li> <li>▶ Presence of open flame.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul>
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

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> 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 contact in some persons. The material may accentuate any pre-existing dermatitis condition
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Dentsply Interglarity Temporary Crown & Bridge Material	TOXICITY	IRRITATION
	Not Available	Not Available
silica amorphous, fumed	TOXICITY	IRRITATION
	Oral (rat) LD50: >6000 mg/kg [2]	Not Available

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. \* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

## SILICA AMORPHOUS, FUMED

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. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals.

For silane, dichloro-methyl-, reaction products with silica: Acute oral toxicity is very low for treated silica. Animals who inhaled these substances recovered from inflammatory changes in the airway when exposure ended. Repeated inhalation in animals caused inflammation and scarring of the lungs with enlarged lymph nodes. Treated silica does not cause mutations or genetic damage and has not been shown to cause cancer.

Acute Toxicity	☉	Carcinogenicity	☉
Skin Irritation/Corrosion	✔	Reproductiveity	☉
Serious Eye Damage/Irritation	✔	STOT - Single Exposure	☉
Respiratory or Skin sensitisation	✔	STOT - Repeated Exposure	☉
Mutagenicity	☉	Aspiration Hazard	☉

**Legend:** ✖ - Data available but does not fill the criteria for classification  
✔ - Data available to make classification  
☉ - Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available	Not Available	Not Available	Not Available
ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
NOEC	24	Crustacea	>=10000mg/L	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

## Dentsply Intergrity Temporary Crown &amp; Bridge Material

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

## Bioaccumulative potential

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	
	<ul style="list-style-type: none"> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Management Authority for disposal.</li> <li>▶ Bury residue in an authorised landfill.</li> <li>▶ Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

## 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)
National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
Canada - NDSL	N (silica amorphous, fumed)	
China - 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	
<b>Legend:</b>	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, fumed	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.

## Dentsply IntegriTemp Temporary Crown & Bridge Material

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 Hygienists  
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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