

## **SAFETY DATA SHEETS**

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

076208532

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

076208516

**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).**

076208524 076208540 076208557 076208565 076208573 076208581 076208599 076208607 076208615 076208623



## 1. Substance / Preparation and Company Name

Product Name: riva light cure (powder)

Recommended use: Powder for the making of dental restorative cement by dental professionals, when mixed with riva light cure liquid.

### Manufacturer / Supplier

SDI Limited  
3-13 Brunson Street, Bayswater  
Victoria, 3153, Australia

SDI Inc.  
729 N.Route 83, Suite 315  
Bensenville 60106 IL, USA

### Telephone:

+61 3 8727 7111 (Business hours)

### Telephone:

630 238 8300 (Business hours)

Southern Dental Industries Ltd  
Block 8, St Johns Court  
Swords Road  
Santry, Dublin 9, Ireland

SDI Brasil Indústria e Comércio Ltda  
Rua Dr. Virgílio de Carvalho Pinto, 612  
Pinheiros, São Paulo, 05415-020  
Brasil

### Telephone:

+353 1 886 9577 (Business Hours)

### Telephone:

+55 11 3092 7100 (Business Hours)

**Emergency contact number:** +61 3 8727 7111

## 2. Composition / Information on Ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt %</u>
Fluoroaluminosilicate glass powder		95-100

## 3. Hazard Identification

Xi - IRRITANT. Powder is an irritant. Avoid creating and inhaling dust.

Risk Phrases:           **36**   Irritating to eyes.  
                                  **37**   Irritating to respiratory system.  
                                  **38**   Irritating to skin.

Safety Phrases:       **22**   Do not breathe dust.  
                              **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**   After contact with skin, wash immediately with water and soap.

## 4. First Aid Measures

Eye (contact):           Flush opened eye with running water for 15 minutes. Seek medical attention.

Skin (contact):           Wash skin with plenty of water. If irritation occurs seek medical attention.

Inhalation:               Remove to fresh air. Seek medical attention if irritation develops or if feeling unwell.

Ingestion:                Drink plenty of water. Seek medical attention if discomfort continues.



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## 5. Fire Fighting Measures

Suitable Extinguishing Media:	None required.
Unusual Fire and Explosion Hazards:	None.
Special Protective Equipment:	No special protective equipment required.

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## 6. Accidental Release Measures

Personal Precautions:	Avoid contact with eyes, skin or clothing.
Environmental Precautions:	Clear up spillages. Transfer to a container for disposal.
Method for Cleaning Spills:	Wash the spillage area clean with water.

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## 7. Handling and storage

### Handling

Store sealed containers away from heat and light.

### Storage

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 4° - 20°C (39° - 68°F) and should be kept away from direct sunlight.

### Distribution

During distribution, to our customers, this product can be transported in non-refrigerated conditions between 15° to 25° C. This product can also withstand temperatures up to 40° C for short periods (2 to 3 days) and intermittent peaks up to 50° C.

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## 8. Exposure Controls / Personal Protection

Respiratory Protection:	Face mask.
Hand Protection:	Safety / rubber gloves.
Eye Protection:	Safety glasses, goggles or face shield.
General Safety and Hygiene Measures:	None

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## 9. Physical and Chemical Properties

Appearance:	Fine white powder
Odour:	None
Boiling Point:	Not applicable
Melting Point:	>750°C
Specific Gravity:	2.8 g / cm <sup>3</sup>



**9. Physical and Chemical Properties (Cont'd)**

Flash Point:	Not applicable
Flammable:	Not applicable
Autoflammability:	Not applicable
Explosive Properties:	Not known
Oxidising Properties:	Not known
Vapour Pressure (@ 20°C):	None
Vapour Density:	None
Solubility:	Insoluble

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**10. Stability and Reactivity**

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known
Materials to Avoid:	None known
Hazardous Decomposition Products:	None known
Hazardous Reactivity (Polymerization):	None known

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**11. Toxicological Information**

Acute Toxicity:	Contact with skin and eyes may cause irritation.
Eye (contact):	May cause irritation due to foreign body reaction.
Skin (contact):	Possible skin irritant.
Inhalation:	Possible respiratory irritant.
Ingestion:	Irritant not likely in small amounts.

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**12. Ecological Information**

Self-Assessment:	Not readily biodegradable. Slightly hazardous for water.
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**13. Disposal Considerations**

Dispose in accordance with local official regulations.

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**14. Transport Information**

This product is not considered to be a dangerous good within the meaning of transportation regulations.

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## 15. Regulatory Information

This product is regulated by:

TGA  
Medical Devices Directive 93/42/EEC  
FDA  
National regulations

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## 16. Other Information

### Preparation of MSDS:

**Prepared by:** SDI Limited  
3-13 Brunsdon Street, Bayswater  
Victoria, 3153, Australia

**Phone Number:**  
+61 3 8727 7111

The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

**Department issuing MSDS:** Research and Development  
**Contact:** Operations Director

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## 1. Substance / Preparation and Company Name

Product Name: riva light cure powder/liquid Kit

Recommended use: Powder for the making of dental restorative cement by dental professionals, when mixed with riva light cure liquid.

### Manufacturer / Supplier

SDI Limited  
3-13 Brunsdon Street, Bayswater  
Victoria, 3153, Australia

SDI Inc.  
729 N.Route 83, Suite 315  
Bensenville 60106 IL, USA

### Telephone:

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**Emergency contact number:** +61 3 8727 7111

## 2. Composition / Information on Ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt %</u>
Fluoroaluminosilicate glass powder		95-100

## 3. Hazard Identification

Xi - IRRITANT. Powder is an irritant. Avoid creating and inhaling dust.

Risk Phrases: **36** Irritating to eyes.  
**37** Irritating to respiratory system.  
**38** Irritating to skin.

Safety Phrases: **22** Do not breathe dust.  
**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** After contact with skin, wash immediately with water and soap.

## 4. First Aid Measures

Eye (contact): Flush opened eye with running water for 15 minutes. Seek medical attention.

Skin (contact): Wash skin with plenty of water. If irritation occurs seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention if irritation develops or if feeling unwell.

Ingestion: Drink plenty of water. Seek medical attention if discomfort continues.



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## 5. Fire Fighting Measures

Suitable Extinguishing Media:	None required.
Unusual Fire and Explosion Hazards:	None.
Special Protective Equipment:	No special protective equipment required.

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## 6. Accidental Release Measures

Personal Precautions:	Avoid contact with eyes, skin or clothing.
Environmental Precautions:	Clear up spillages. Transfer to a container for disposal.
Method for Cleaning Spills:	Wash the spillage area clean with water.

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## 7. Handling and storage

### Handling

Store sealed containers away from heat and light.

### Storage

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 4° - 20°C (39° - 68°F) and should be kept away from direct sunlight.

### Distribution

During distribution, to our customers, this product can be transported in non-refrigerated conditions between 15° to 25° C. This product can also withstand temperatures up to 40° C for short periods (2 to 3 days) and intermittent peaks up to 50° C.

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## 8. Exposure Controls / Personal Protection

Respiratory Protection:	Face mask.
Hand Protection:	Safety / rubber gloves.
Eye Protection:	Safety glasses, goggles or face shield.
General Safety and Hygiene Measures:	None

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## 9. Physical and Chemical Properties

Appearance:	Fine white powder
Odour:	None
Boiling Point:	Not applicable
Melting Point:	>750°C
Specific Gravity:	2.8 g / cm <sup>3</sup>



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**9. Physical and Chemical Properties** (Cont'd)

Flash Point:	Not applicable
Flammable:	Not applicable
Autoflammability:	Not applicable
Explosive Properties:	Not known
Oxidising Properties:	Not known
Vapour Pressure (@ 20°C):	None
Vapour Density:	None
Solubility:	Insoluble

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**10. Stability and Reactivity**

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known
Materials to Avoid:	None known
Hazardous Decomposition Products:	None known
Hazardous Reactivity (Polymerization):	None known

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**11. Toxicological Information**

Acute Toxicity:	Contact with skin and eyes may cause irritation.
Eye (contact):	May cause irritation due to foreign body reaction.
Skin (contact):	Possible skin irritant.
Inhalation:	Possible respiratory irritant.
Ingestion:	Irritant not likely in small amounts.

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**12. Ecological Information**

Self-Assessment:	Not readily biodegradable. Slightly hazardous for water.
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**13. Disposal Considerations**

Dispose in accordance with local official regulations.

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**14. Transport Information**

This product is not considered to be a dangerous good within the meaning of transportation regulations.

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## 15. Regulatory Information

This product is regulated by:

TGA  
Medical Devices Directive 93/42/EEC  
FDA  
National regulations

---

## 16. Other Information

### Preparation of MSDS:

**Prepared by:** SDI Limited  
3-13 Brunsdon Street, Bayswater  
Victoria, 3153, Australia

**Phone Number:**  
+61 3 8727 7111

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**Department issuing MSDS:** Research and Development  
**Contact:** Operations Director

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## 1. Substance / Preparation and Company Name

Product Name: riva light cure (liquid)

Recommended use: liquid for the making of light-cured dental restorative cement, when mixed with riva light cure powder.

### Manufacturer / Supplier

SDI Limited  
3-13 Brunson Street, Bayswater  
Victoria, 3153, Australia

SDI Inc.  
729 N.Route 83, Suite 315  
Bensenville 60106 IL, USA

### Telephone:

+61 3 8727 7111 (Business hours)

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Pinheiros, São Paulo, 05415-020  
Brasil

### Telephone:

+353 1 886 9577 (Business Hours)

### Telephone:

+55 11 3092 7100 (Business Hours)

**Emergency contact number:** +61 3 8727 7111

## 2. Composition / Information on Ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt. %</u>
Polyacrylic Acid	9003-01-4	15-25
Tartaric Acid	87-69-4	1-5
2-Hydroxyethyl Methacrylate	868-77-9	20-30
Dimethacrylate Cross-linker		10-25
Acidic Monomer		10-20

## 3. Hazard Identification

Xi - IRRITANT. Product is an irritant. Avoid contact with skin, eyes, and respiratory system.

Risk Phrases: **36** Irritating to eyes.  
**37** Irritating to respiratory system.  
**38** Irritating to skin.  
**43** May cause sensitisation by skin contact.

Safety Phrases: **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** After contact with skin, wash immediately with water and soap.



#### 4. First Aid Measures

Eye (contact):	Flush opened eye with running water for 15 minutes. Seek medical attention.
Skin (contact):	Immediately remove contaminated clothing. Wash skin with plenty of water. If irritation occurs seek medical attention.
Inhalation:	Remove to fresh air. Seek medical attention if irritation develops or if feeling unwell.
Ingestion:	Immediately drink plenty of water. Do NOT induce vomiting. Seek medical attention.

#### 5. Fire Fighting Measures

Suitable Extinguishing Media:	None required.
Unusual Fire and Explosion Hazards:	None.
Special Protective Equipment:	No special protective equipment required.

#### 6. Accidental Release Measures

Personal Precautions:	Do not get into eyes, on skin or clothing.
Environmental Precautions:	Prevent product from entering drains, surface water or ground water.
Method for Cleaning Spills:	Contain with absorbent material (e.g. sand, diatomaceous earth) and dispose of in accordance with regulations.

#### 7. Handling and storage

##### Handling

Store sealed containers away from heat and light.

##### Storage

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 4° - 20°C (39° - 68°F) and should be kept away from direct sunlight.

##### Distribution

During distribution, to our customers, this product can be transported in non-refrigerated conditions between 15° to 25° C. This product can also withstand temperatures up to 40° C for short periods (2 to 3 days) and intermittent peaks up to 50° C.

#### 8. Exposure Controls / Personal Protection

Respiratory Protection:	None required under normal conditions of use.
Hand Protection:	Latex or rubber gloves.
Eye Protection:	Safety glasses or goggles
General Safety and Hygiene Measures:	None



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## 9. Physical and Chemical Properties

Appearance:	Slightly yellow liquid
Odour:	Slightly characteristic odour
Boiling Point:	Approx. 100°C (212°F)
Melting Point:	Not applicable
Specific Gravity:	1.14 g / cm <sup>3</sup>
Flash Point:	Not applicable
Flammable:	Not flammable
Autoflammability:	Not applicable
Explosive Properties:	Does not present an explosion hazard
Oxidising Properties:	Not applicable
Vapour Pressure (@ 20°C):	Approx. 23 hPa
Vapour Density:	<1.0
Solubility:	Miscible

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## 10. Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid excessive heat
Materials to Avoid:	None
Hazardous Decomposition Products:	None when used as directed
Hazardous Reactivity (Polymerization):	No hazardous reactions known

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## 11. Toxicological Information

Acute Toxicity:	Contact with skin, respiratory system and eyes causes irritation.
Eye (contact):	Irritating to eyes.
Skin (contact):	Skin irritant.
Inhalation (powder)	Irritating.
Ingestion:	Irritating and may be harmful.

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## 12. Ecological Information

Self-Assessment:	Not readily biodegradable. Avoid large quantities entering drains, surface water or ground water.
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**13. Disposal Considerations**

Dispose in accordance with local official regulations.

---

**14. Transport Information**

This product is not considered to be a dangerous good within the meaning of transportation regulations.

---

**15. Regulatory Information**

This product is regulated by:

TGA  
Medical Devices Directive 93/42/EEC  
FDA  
National regulations

---

**16. Other Information**

**Preparation of MSDS:**

**Prepared by:** SDI Limited  
3-13 Brunsdon Street, Bayswater  
Victoria, 3153, Australia

**Phone Number:**  
+61 3 8727 7111

The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

**Department issuing MSDS:** Research and Development  
**Contact:** Operations Director

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## Riva Light Cure (powder)

### SDI Limited

Version No: 5.1.1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **18/03/2016**

Print Date: **30/03/2016**

Initial Date: **Not Available**

L.GHS.USA.EN

## SECTION 1 IDENTIFICATION

### Product Identifier

Product name	Riva Light Cure (powder)
Synonyms	Not Available
Other means of identification	Not Available

### Recommended use of the chemical and restrictions on use

Relevant identified uses	Powder for the making of dental restorative cement by dental professionals, when mixed with Riva Light Cure liquid.
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### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH
Address	3-15 Brunsdon Street VIC Bayswater 3153 Australia	Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil	Hansestrasse 85 Cologne D-51149 Germany
Telephone	+61 3 8727 7111 (Business Hours)	+55 11 3092 7100	+49 0 2203 9255 0
Fax	+61 3 8727 7222	+55 11 3092 7101	+49 0 2203 9255 200
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au

Registered company name	SDI (North America) Inc.
Address	1279 Hamilton Parkway IL Itasca 60143 United States
Telephone	+1 630 361 9200 (Business hours)
Fax	Not Available
Website	Not Available
Email	USA.Canada@sdi.com.au

### Emergency phone number

Association / Organisation	SDI Limited	Not Available	Not Available
Emergency telephone numbers	+61 3 8727 7111	Not Available	Not Available
Other emergency telephone numbers	ray.cahill@sdi.com.au	Not Available	Not Available

Association / Organisation	Not Available
Emergency telephone numbers	+61 3 8727 7111
Other emergency telephone numbers	Not Available

## SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Not Applicable
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### Label elements

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## Riva Light Cure (powder)

<b>GHS label elements</b>	Not Applicable
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<b>SIGNAL WORD</b>	<b>NOT APPLICABLE</b>
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**Hazard statement(s)**

Not Applicable

**Hazard(s) not otherwise specified**

Not Applicable

**Precautionary statement(s) Prevention**

Not Applicable

**Precautionary statement(s) Response**

Not Applicable

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

Not Applicable

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
Not Available	95-100	glass powder

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**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>▶ Wash out immediately with fresh 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>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</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 or combustion products are inhaled remove from contaminated area.</li> <li>▶ Seek medical attention.</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> <p>Seek medical attention.</p>

**Most important symptoms and effects, both acute and delayed**

See Section 11

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIRE-FIGHTING MEASURES****Extinguishing media**

Foam is generally ineffective.

**Special hazards arising from the substrate or mixture**

<b>Fire Incompatibility</b>	None known.
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**Special protective equipment and precautions for fire-fighters**

<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 in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> <li>▶ <b>DO NOT</b> approach containers suspected to be hot.</li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> <li>▶ Equipment should be thoroughly decontaminated after use.</li> </ul>
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## Riva Light Cure (powder)

<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul> <p>May emit poisonous fumes. May emit corrosive fumes.</p>
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### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Minor Spills</b>	<ul style="list-style-type: none"> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> <li>▶ Use dry clean up procedures and avoid generating dust.</li> <li>▶ Place in a suitable, labelled container for waste disposal.</li> </ul>
<b>Major Spills</b>	<p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>▶ <b>CAUTION:</b> Advise personnel in area.</li> <li>▶ Alert Emergency Services and tell them location and nature of hazard.</li> <li>▶ Control personal contact by wearing protective clothing.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Recover product wherever possible.</li> <li>▶ <b>IF DRY:</b> Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. <b>IF WET:</b> Vacuum/shovel up and place in labelled containers for disposal.</li> <li>▶ <b>ALWAYS:</b> Wash area down with large amounts of water and prevent runoff into drains.</li> <li>▶ If contamination of drains or waterways occurs, advise Emergency Services.</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> <li>▶ <b>DO NOT enter confined spaces until atmosphere has been checked.</b></li> <li>▶ <b>DO NOT allow material to contact humans, exposed food or food utensils.</b></li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ <b>When handling, DO NOT eat, drink or smoke.</b></li> <li>▶ Keep containers securely sealed when not in use.</li> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
<b>Other information</b>	<p>Store between 5 and 30 deg C.  <b>Do not</b> store in direct sunlight.          Store in a dry and well ventilated-area, away from heat and sunlight.</p>

#### Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	▶ <b>DO NOT repack.</b> Use containers supplied by manufacturer only.
<b>Storage incompatibility</b>	▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

### 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
Riva Light Cure (powder)	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
glass powder	Not Available	Not Available

##### MATERIAL DATA


#### Exposure controls

<b>Appropriate engineering controls</b>	<p>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.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p>
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Continued...



## Riva Light Cure (powder)

	<ul style="list-style-type: none"> <li>▶ Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</li> <li>▶ If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.</li> </ul> <p>Such protection might consist of:</p> <p>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</p> <p>(b): filter respirators with absorption cartridge or canister of the right type;</p> <p>(c): fresh-air hoods or masks.</p> <p>Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Type of Contaminant:</td> <td style="width: 30%;">Air Speed:</td> </tr> <tr> <td>direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)</td> <td>1-2.5 m/s (200-500 f/min.)</td> </tr> <tr> <td>grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).</td> <td>2.5-10 m/s (500-2000 f/min.)</td> </tr> </table> <p>Within each range the appropriate value depends on:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Lower end of the range</td> <td style="width: 40%;">Upper end of the range</td> </tr> <tr> <td>1: Room air currents minimal or favourable to capture</td> <td>1: Disturbing room air currents</td> </tr> <tr> <td>2: Contaminants of low toxicity or of nuisance value only.</td> <td>2: Contaminants of high toxicity</td> </tr> <tr> <td>3: Intermittent, low production.</td> <td>3: High production, heavy use</td> </tr> <tr> <td>4: Large hood or large air mass in motion</td> <td>4: Small hood-local control only</td> </tr> </table> <p>Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.</p>	Type of Contaminant:	Air Speed:	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)	Lower end of the range	Upper end of the range	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	3: Intermittent, low production.	3: High production, heavy use	4: Large hood or large air mass in motion	4: Small hood-local control only
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<b>Personal protection</b>																	
<b>Eye and face protection</b>	<ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>																
<b>Skin protection</b>	See Hand protection below																
<b>Hands/feet protection</b>	▶ Rubber Gloves																
<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> <li>▶ Skin cleansing cream.</li> <li>▶ Eye wash unit.</li> </ul>																
<b>Thermal hazards</b>	Not Available																

### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	- -	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3 Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

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>	Fine white powder, insoluble in water.		
<b>Physical state</b>	Divided Solid	<b>Relative density (Water = 1)</b>	Not Available

Continued...

## Riva Light Cure (powder)

<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 Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Applicable
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Available	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Applicable
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Immiscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	<ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul>
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

<b>Inhaled</b>	<p>Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.</p> <p>Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.</p> <p>If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.</p>				
<b>Ingestion</b>	Accidental ingestion of the material may be damaging to the health of the individual.				
<b>Skin Contact</b>	<p>Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p>				
<b>Eye</b>	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.				
<b>Chronic</b>	<p>Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.</p> <p>Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness. Lung shadows show on X-ray.</p>				
<b>Riva Light Cure (powder)</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td> <td><b>IRRITATION</b></td> </tr> <tr> <td>Not Available</td> <td>Not Available</td> </tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available
<b>TOXICITY</b>	<b>IRRITATION</b>				
Not Available	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

## Riva Light Cure (powder)

Acute Toxicity	☐	Carcinogenicity	☐
Skin Irritation/Corrosion	☐	Reproductivity	☐
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 required to make classification available  
☐ – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Legend:</b>	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - 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				

**DO NOT** discharge into sewer or waterways.

## 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

<b>Product / Packaging disposal</b>	<ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▶ Where in doubt contact the responsible authority.</li> </ul> <p>Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.</p>
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## SECTION 14 TRANSPORT INFORMATION

## Labels Required

<b>Marine Pollutant</b>	NO
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Land transport (DOT): 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

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard

NO

Continued...

## Riva Light Cure (powder)

Delayed (chronic) health hazard	NO
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO

### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

### State Regulations

#### US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
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

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited 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 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

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

#### Other information:

Prepared by: SDI Limited  
 3-15 Brunson Street, Bayswater Victoria, 3153, Australia  
 Phone Number: +61 3 8727 7111  
 Date of preparation/revision: 23rd September 2015  
 Department issuing SDS: Research and Development  
 Contact: Technical Director



# Global Safety Management, Inc

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To Whom It May Concern:

Riva Light Cure Powder/Liquid Kit.

This product is a kit with multiple components. Please see the individual component SDSs for information.

The GSM Reference numbers are:

GSM-019050

GSM-019049

Sincerely,

The Global Safety Management Team

[www.globalmsdslibrary.com](http://www.globalmsdslibrary.com)

1-813-435-5161