



1. Identification of the substance/mixture and of the Company/undertaking:

1.1 Product identifier:

Product Name: Riva Protect (liquid)

1.2 Relevant identified use:

Relevant use:

Professional dental use: Dental liquid for making glass ionomer fissure & tooth protector.

1.3 Details of the supplier of the Safety Data Sheet:

Manufacturer / Supplier

SDI Limited
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Email: ray.cahill@sdi.com.au (Technical Director, SDI Limited)

2. Hazard Identification

Classification of the substance/mixture:

SIGNAL WORD: WARNING



GHS Classification:

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)



2. Hazard Identification

Hazard statement(s)

- H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s):

Prevention:

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use in a well-ventilated area
P280 Wear protective gloves/ eye protection/ face protection.

Response:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions in the instructions and first aid section).
P332 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Storage:

- P405 Store locked up.

Disposal:

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

Other:

Product is an irritant. Avoid contact with skin and eyes.

3. Composition / Information on Ingredients

| <u>Composition:</u> | <u>CAS No.</u> | <u>Wt. %</u> | <u>EC No.</u> |
|---------------------|----------------|--------------|---------------|
| Polyacrylic Acid | 9003-01-4 | 25.0 | - |
| Tartaric Acid | 87-69-4 | 10.0 | 201-766-0 |

Hazard Classification:

Skin irritation (Category 2); Eye irritation (Category 2); Specific target organ toxicity - single exposure (Category 3): H315; H319; H335.

4. First Aid Measures



| | |
|-----------------|---|
| Eye (contact): | Flush opened eye with running water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. |
| Skin (contact): | Remove contaminated clothing. Wash skin with plenty of water. If irritation occurs seek medical attention. |
| Ingestion: | Drink plenty of water. Seek medical attention if discomfort continues. |
| Inhalation: | Remove to fresh air. Seek medical attention if irritation develops or if feeling unwell. |

Most important effects, acute and delayed:

The most important known symptoms and effects are described in section 2 and/or in section 11.

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire Fighting Measures

| | |
|--|--|
| Suitable Extinguishing Media: | Foam type. |
| Unusual Fire and Explosion Hazards: | None. |
| Unsuitable extinguishing media: | None. |
| Specific hazards arising from the mixture: | Emit unpleasant and pungent smoke when admitted to heat beyond the boiling point. |
| Special Protective Equipment: | No special protective equipment required if small quantity. For large quantity, wear approved respirator and protective gear. Use water spray to cool. |
| Advice for firefighters: | Wear self-contained breathing apparatus for fire fighting if necessary. |

6. Accidental Release Measures

| | |
|--|---|
| Personal Precautions: | Do not get into eyes, on skin or clothing. |
| Environmental precautions: | Do not let product enter drains |
| Method for Cleaning and containment of Spills: | Mop up with absorbent paper or cloth. Keep in suitable closed containers for disposal. Wash the spillage area clean with water. |
| Removal of ignition sources, provision of sufficient ventilation, control of dust: | No data available. |

7. Handling and storage

| | |
|---------------------------------------|---|
| <u>Precautions for safe handling:</u> | Store sealed containers away from heat and light. |
|---------------------------------------|---|



Conditions for safe storage, including any biocompatibilities:

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.

Specific end use: Apart from the use mentioned in section 1.2, there are no other uses for the product.

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. |

9. Physical and Chemical Properties

| | |
|----------------------------|--------------------------------------|
| Appearance: | Colourless liquid |
| Odour: | Slightly characteristic odour |
| Boiling Point: | Approx. 100°C (212°F) |
| Melting Point: | Not applicable |
| Specific Gravity: | 1.2 g / cm ³ |
| 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 |
| Relative density: | Not known |
| Auto-ignition temperature: | Not applicable |
| Decomposition temperature: | Not applicable |
| pH: | <2 |

10. Stability and Reactivity

| | |
|---------------------|---------------------------------|
| Reactivity: | No data available. |
| Chemical Stability: | Stable under normal conditions. |



| | |
|--|-------------------------------|
| Conditions to Avoid: | Avoid excessive heat. |
| Materials to Avoid: | Alkaline. |
| Hazardous Decomposition Products: | None when used as directed. |
| Hazardous Reactivity (Polymerization): | No hazardous reactions known. |

11. Toxicological Information

| | |
|---|---|
| Acute toxicity: | Contact with skin, eyes, and respiratory tract may cause irritation. |
| Serious eye damage/irritation: | May cause irritation due to foreign body reaction. |
| Skin corrosion/irritation: | Possible skin irritant. |
| Respiratory or skin sensitisation: | Possible respiratory irritant. |
| Ingestion: | Irritant not likely in small amounts. |
| Germ cell mutagenicity: | No data available. |
| Carcinogenicity: | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. (IARC: International Agency for Research on Cancer, by the World Health Organisation (WHO)). |
| Reproductive toxicity: | No data available. |
| Specific target organ toxicity – single exposure: | May cause irritation to eyes, skin and inhalation. |
| Specific target organ toxicity – repeated exposure: | No data available. |
| Aspiration hazard: | No data available. |

12. Ecological Information

| | |
|---|---|
| Self Assessment: | Not readily biodegradable. Avoid large quantities entering drains, surface water or ground water. |
| Ecotoxicity: | No data available. |
| Persistence and biodegradability: | No data available. |
| Bioaccumulative potential: | No data available. |
| Mobility in soil: | No data available. |
| Results of PBT and VPvB assessment: | PBT/VPvB assessment not available as chemical safety assessment not required/not conducted. |
| Other adverse effects (such as hazardous to ozone layer): | No data available. |

13. Disposal Considerations

Dispose in accordance with local official regulations.



Contaminated packaging: Dispose of contaminated packaging as hazardous waste 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

| | |
|---|---|
| Prepared by: SDI Limited 3-13 Brunsdon Street, Bayswater Victoria, 3153, Australia | Phone Number: +61 3 8727 7111 |
|---|---|

Date of preparation/revision: 2nd February 2015.

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.

Department issuing SDS: Research and Development

Contact: R&D Director



1. Substance / Preparation and Company Name

Product Name: riva protect (powder)

Recommended use: Powder for the making of glass ionomer fissure and tooth protector by dental professionals.

Manufacturer / Supplier

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2. Composition / Information on Ingredients

| <u>Composition:</u> | <u>CAS No.</u> | <u>Wt %</u> |
|------------------------------|----------------|-------------|
| Fluoro Aluminosilicate Glass | | 90.0 |
| Polyacrylic Acid | 9003-01-4 | 10.0 |

3. Hazard Identification

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: **25** Avoid contact with 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.

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



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: 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.

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: Face mask.

Hand Protection: Safety / rubber gloves.

Eye Protection: Safety glasses, goggles or face shield.

General Safety and Hygiene Measures: None

9. Physical and Chemical Properties

Appearance: Fine white powder

Odour: None

Boiling Point: Not applicable

Melting Point: >750°C

Specific Gravity: 2.5 g / cm³



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 |

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 |

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. |

12. Ecological Information

| | |
|------------------|--|
| Self Assessment: | Not readily biodegradable. Slightly hazardous for water. |
|------------------|--|

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
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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
