

# SDI (North America) Inc.

Version No: 5.1

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

Issue Date: 23/12/2022 Print Date: 22/11/2023 L.GHS.USA.EN

### **SECTION 1 Identification**

Product Identifier	
Product name	Riva Protect (powder)
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses Powder for the making of glass ionomer fissure and tooth protector by dental professionals.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI (North America) Inc.	SDI HOLDINGS PTY LTD DO			
Address	1279 Hamilton Parkway Itasca IL 60143 United States	3-15 Brunsdon Street Bayswater VIC 3153 Australia	Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajaí – SC – CEP 88310-004 Brazil		
Telephone	+1 630 361 9200	+55 11 3092 7100			
Fax	Not Available	Not Available +61 3 8727 7222			
Website	www.sdi.com.au	www.sdi.com.au	http://www.sdi.com.au/		
Email	USA.Canada@sdi.com.au	Canada@sdi.com.au info@sdi.com.au			
Registered company name	SDI Germany GmbH				
Address	Hansestrasse 85 Cologne D-51149 Germany				
Telephone	+49 0 2203 9255 0				
Fax	+49 0 2203 9255 200				
Website	www.sdi.com.au				
Email	germany@sdi.com.au				

### Emergency phone number

Association / Organisation	SDI Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	131126 Poisons Information Centre	+1 855-237-5573	
Other emergency telephone numbers	+61 3 8727 7111	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

### 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 Serious Eye Damage/Eye Irritation Category 2B

Hazard pictogram(s)	Not Applicable
Signal word	Warning
Hazard statement(s)	
H320	Causes eve irritation.

### Hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.		
Precautionary statement(s) Response			
P305+P351+P338	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337+P313	If eye irritation persists: Get medical advice/attention.		

#### 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	80-90	glass powder.
9003-01-4	10-20	acrylic acid homopolymer

### **SECTION 4 First-aid measures**

#### Description of first aid measures If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper Eye Contact and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin or hair contact occurs: Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes or combustion products are inhaled remove from contaminated area. Inhalation Seek medical attention. Immediately give a glass of water. ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. Ingestion Seek medical attention.

# 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

Fire Incompatibility None known.

**Fire Fighting** 

# Special protective equipment and precautions for fire-fighters

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
  - Use water delivered as a fine spray to control fire and cool adjacent area.

	<ul> <li>DO NOT 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>
Fire/Explosion Hazard	<ul> <li>Combustible solid which burns but propagates flame with difficulty: it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is of the valled the "Minimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquid/sizepors/mists.ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the pure dust. In air m</li></ul>

## **SECTION 6** Accidental release measures

### Personal precautions, protective equipment and emergency procedures See section 8

### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>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>
Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: 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>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: 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

Safe handling	<ul> <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>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> </ul>

	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
	Do not store in direct sunlight.
Other information	Store in a dry and well ventilated-area, away from heat and sunlight.
	Store between 5 and 30 deg C.

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>DO NOT repack. Use containers supplied by manufacturer only.</li> <li>Check that containers are clearly labelled and free from leaks</li> </ul>
Storage incompatibility + 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	TEEL-1	TEEL-2		TEEL-3
Riva Protect (powder)	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
glass powder	Not Available		Not Available	
acrylic acid homopolymer	Not Available		Not Available	

Occupational Exposure Banding			
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
acrylic acid homopolymer	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

# MATERIAL DATA

### Exposure controls

Appropriate engineering controls	<ul> <li>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:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>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.</li> <li>Employers may need to use multiple types of controls to prevent employee overexposure.</li> <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>Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of:</li> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> <li>(c): fresh-air hoods or masks</li> <li>Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.</li> <li>Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.</li> <li>Air contaminantis generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities"</li></ul>		
	Type of Contaminant:	Air Speed:	
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200-500 ft/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 ft/min)
	Within each range the appropriate value depends on:		
	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	ntaminants 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		

Continued...

# **Riva Protect (powder)**

	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 ft/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.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</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 initiation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Rubber Gloves</li> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

### **Respiratory protection**

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, 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(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

### **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties

Appearance	Fine pale coloured powder, insoluble in water.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available

Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</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

		e material may produce irritation of the respiratory system, in a significant number of				
Inhaled	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					
IIIIaleu	system. Persons with impaired respiratory function, airway disease	es and conditions such as emphysema or chronic bronchitis may incur further disabili				
	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.					
		f 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.				
Ingestion	Accidental ingestion of the material may be damaging to t	the health of the individual.				
Skin Contact	individuals following direct contact, and/or produces signif hours, such inflammation being present twenty-four hours prolonged or repeated exposure; this may result in a form redness (erythema) and swelling (oedema) which may pro- microscopic level there may be intercellular oedema of the Open cuts, abraded or irritated skin should not be expose	prasions, puncture wounds or lesions, may produce systemic injury with harmful effects				
Eye	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.					
Chronic	biochemical systems.	supational exposure may produce cumulative health effects involving organs or se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.				
	biochemical systems. Long term exposure to high dust concentrations may cause	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5				
Chronic Riva Protect (powder)	biochemical systems. Long term exposure to high dust concentrations may caus micron penetrating and remaining in the lung. A prime syr	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.				
Riva Protect (powder)	biochemical systems. Long term exposure to high dust concentrations may caus micron penetrating and remaining in the lung. A prime syr	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.				
	biochemical systems. Long term exposure to high dust concentrations may caus micron penetrating and remaining in the lung. A prime syr TOXICITY Not Available	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.           IRRITATION           Not Available				
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Riva Protect (powder) glass powder	biochemical systems. Long term exposure to high dust concentrations may cause micron penetrating and remaining in the lung. A prime system of the analysis of the system o	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.           IRRITATION           Not Available           IRRITATION           Not Available				
Riva Protect (powder)	biochemical systems. Long term exposure to high dust concentrations may cause micron penetrating and remaining in the lung. A prime system of the analysis of the system o	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.           IRRITATION           Not Available           IRRITATION           Not Available           IRRITATION           IRRITATION				
Riva Protect (powder) glass powder	biochemical systems. Long term exposure to high dust concentrations may cause micron penetrating and remaining in the lung. A prime syr TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.           IRRITATION           Not Available           IRRITATION           Not Available           IRRITATION           Even adverse effect observed (irreversible damage) <sup>[1]</sup>				
Riva Protect (powder) glass powder	biochemical systems. Long term exposure to high dust concentrations may cause micron penetrating and remaining in the lung. A prime syr TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: >5.1 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 146-468 mg/kg <sup>[1]</sup>	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.           IRRITATION           Not Available           IRRITATION           Not Available           IRRITATION           Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>				
Riva Protect (powder) glass powder acrylic acid homopolymer	biochemical systems. Long term exposure to high dust concentrations may cause micron penetrating and remaining in the lung. A prime syr TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: >5.1 mg/l4h <sup>[1]</sup> Oral (Rat) LD50: 146-468 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substant	se changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 mptom is breathlessness. Lung shadows show on X-ray.           IRRITATION           Not Available           IRRITATION           Not Available           IRRITATION           Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>				

# Riva Protect (powder)

ACRYLIC ACID HOMOPOLYMER	Astma-like symptoms may continue for months or ever known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre astma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to sever lymphocytic inflammation, without eosinophilia. RADS (of the concentration of and duration of exposure to the irritu- result of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough a Polycarboxylates are of low toxicity by all exposure routt Homopolymers(P-AA) are of low acute toxicity to the rat irritating to the eye. Further P-AA has no sensitising poto The adverse effect after repeated inhalation dosing (91- substance related owing to the physical property of the r There was neither evidence for a genotoxic potential of 1 or reprotoxicity in the rat. Based upon the available data to humans The Cosmetic Ingredient Review (CIR) Expert Panel not pass through the stratum corneum of the skin, so signific expected to result in systemic or reproductive and devel The Panel noted that cosmetic products containing thess membranes. Thus, crosslinked alkyl acrylates could be a lips, and other mucous membranes, and through ingestic intact mucous membranes is likely to be not significant, nature of the polymers are used in cosmetics and emu. Carbomers (Carbopols) are synthetic, high molecula The Carbomer Joyaers are used in cosmetics and emu. Carbomers-910, -934, -934P, -940, and -941 have low to irritation when tested with Carbomers-910 and -934. Sut normal body weights, but no pathological changes were marked pigment deposition within Kupffer cells of the live skin irritation and sensitization at concentrations up to 1 allergenicity. On the basis of the available information pr cosmetic ingredients. Little toxicity data is available for acrylic crosspolymers; are not very toxic. The little genotoxicity data that were a In an alternative method study, acrylates/vinyl isodecana no to slight irritation	S) which can occur after exposure to I vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methad or asthma) following an irritating inhali- ating substance. On the other hand, in g substance (often particles) and is co- nd mucus production. as examined. (LD50 > 5 g/kg bw/d) and are not irrit- ential. d/rat) was a mild, reversible pulmonar- respirable dust, which caused local ar PAA using a variety of genetic endpoi i, it is considered that exposure to pol- ted that these crosslinked alkyl acryla- cant dermal absorption is not expecte opmental toxicity or to have genotoxic e ingredients are reportedly used arou absorbed systemically through the rel- on when applied to the lips. However, nrimarily because of the relatively larg absorbable species. in cosmetic products also would be I hat might be inadvertently ingested on ar weight, nonlinear polymers of acryl alsifying agents at concentrations up to poxicities when ingested. Rabbits show cochronic feeding of rats and dogs witt observed. Dogs chronically fed Carb er. Clinical studies with Carbomers sho 00%. Carbomer-934 demonstrated lo resented and as qualified in the report the acute dermal and oral toxicity dat available for the monomers. Hoate crosspolymer, acrylates crosspol- te crosspolymer, acrylates crosspol- te crosspolymer, acrylates crosspol- te crosspolymer, 1% aq. dilutions of f g up to 2.6% lauryl methacrylate/glyc a waek irritant response noted durin acrylate crosspolymer. at acrylates/vinyl isodecanoate crossp- t likely ocular irritants. In studies usin may be present in acrylates (710-30 alky sitization with sodium acrylates crosspol- t is used in Cosmetics. Nov 2011 comm/attachmentcir_508.pdf	high levels of highly irritating compound. Main individual, with sudden onset of persistent ir criteria for diagnosis of RADS include a reversible sholine challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to industrial bronchitis is a disorder that occurs as a impletely reversible after exposure ceases. The tating to the rabbit s skin and, at the most, slightly ry irritation. This effect is considered as not id not systemic lung effects. Ints in-vitro and in-vivo, nor for developmental toxicity ycarboxylates does not imply any particular hazard tes are macromolecules that are not expected to d. Therefore, topically applied cosmetics are not c or carcinogenic effects upon use. und the eyes, on the lips, and on other mucous atively moist,n stratum cornea of the conjunctiva, the Panel noted that any absorption through healthy the molecular sizes. Furthermore, the chemically inert limited after application to the lips or eye area based r make direct contact with the conjunctiva. ic acid, cross-linked with a polyalkenyl polyether. o 50%. Acute oral animal studies showed that yeed minimal skin irritation and zero to moderate eye n Carbomer-934 in the diet resulted in lower than omer-934P manifested gastrointestinal irritation and nowed that these polymers have low potential for w potential for phototoxicity and photo-contact t, it is concluded that the Carbomers are safe as a that were found indicated that these ingredients Ames tests. Carcinogenicity data were not found in the a non-irritant. The non-human studies reported l acrylate crosspolymer, no irritation with acrylates polymer-2 (concentration not specified). Mostly, lymer, and acrylates/cthylhexyl acrylate iorunations containing 2% acrylates/inyl ol dimethacrylate acrylates/C10-30 alkyl acrylate ant in unrinsed rabbit eyes. Acrylates crosspolymer, n rabbit eyes. Two different risk assessments kyl acrylates crosspolymer resulted in different
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	¥	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
	<b>v</b>		V

Legend:

Aspiration Hazard

X − Data either not available or does not fill the criteria for classification
→ Data available to make classification

×

# **SECTION 12 Ecological information**

Mutagenicity

X

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Riva Protect (powder)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
glass powder	Not Available	Not Available	Not Available	Not Available	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
acrylic acid homopolymer	EC50	72h	Algae or other aquatic plants	0.13-0.205mg/l	2
	EC50	48h	Crustacea	47mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	0.03-0.031mg/l	2
	LC50	96h	Fish	27mg/l	2
Legend:	Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Jap - Bioconcentration Data 8. Vendor Data				

### DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
acrylic acid homopolymer	LOW	LOW	

### **Bioaccumulative potential**

conditionation and homeonal more LOW (Log KOW) 0.4445)	Ingredient	Bioaccumulation	
aciyiic acid nonopolymei LOW (LogNOW = 0.4415)	acrylic acid homopolymer	LOW (LogKOW = 0.4415)	

### Mobility in soil

Ingredient	Mobility
acrylic acid homopolymer	HIGH (KOC = 1.201)

### **SECTION 13 Disposal considerations**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>DO NOT 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>	

### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO

## 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

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

# Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group	
glass powder	Not Available	
acrylic acid homopolymer	Not Available	

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
glass powder	Not Available
acrylic acid homopolymer	Not Available

# **SECTION 15 Regulatory information**

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

# glass powder is found on the following regulatory lists

Not Applicable

### acrylic acid homopolymer is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# Additional Regulatory Information

Not Applicable

# Federal Regulations

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	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**

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	lo (acrylic acid homopolymer)			
China - IECSC	s			
Europe - EINEC / ELINCS / NLP	No (acrylic acid homopolymer)			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	Yes			
Vietnam - NCI	Yes			
Russia - FBEPH	Yes			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.			

# **SECTION 16 Other information**

Revision Date	23/12/2022
Initial Date	14/12/2015

### **SDS Version Summary**

4.1 01/11/2019 One-off system update. NOTE: This may or may not change the GHS classification	Version	Date of Update	Sections Updated
	4.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

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### **Riva Protect (powder)**

Version	Date of Update	Sections Updated
5.1	23/12/2022	Classification review due to GHS Revision change.

### 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
- ES: Exposure Standard
- 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIOC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- + FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111 Department issuing SDS: Research and Development Contact: Technical Director