

SDI Limited

Version No: 4.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830)

Issue Date: 29/01/2016 Print Date: 30/03/2016 Initial Date: Not Available L.REACH.GBR.EN

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

Uses advised against Not Applicable 1.3. Details of the supplier of the safety data's Registered company name Address Address Telephone Fax Website Email info@sdi.com.au Registered company name SDI (North America) Inc.	Dental liquid for making restonet Bayswater 3153 Bayswater 3153 Bayswater 3153	advised against orative cement, when mixed with the Riv SDI Brazil Industria E Comercio Lt Rua Dr. Virgilio de Carvalho Pinto, 61 Paulo CEP 05415-020 Brazil +55 11 3092 7100 +55 11 3092 7101 www.sdi.com.au brasil@sdi.com.au	tda	wder. SDI Germany GmbH Hansestrasse 85 Cologne D-51149 Germany +49 0 2203 9255 0 +49 0 2203 9255 200 www.sdi.com.au germany@sdi.com.au
Other means of Identification 1.2. Relevant identified uses of the substance Relevant identified uses Uses advised against 1.3. Details of the supplier of the safety data service Registered company name Address Telephone Fax Registered company name Fax Registered company name Address SDI Limited 3-15 Brunsdon Street VI Australia Felephone Fax Website Email Registered company name Address SDI (North America) Inc. SDI (North America) Inc. 1279 Hamilton Parkway 1630 361 9200 (Busin Not Available	Dental liquid for making restonet Bayswater 3153 Bayswater 3153 Bayswater 3153	SDI Brazil Industria E Comercio Lt Rua Dr. Virgilio de Carvalho Pinto, 61 Paulo CEP 05415-020 Brazil +55 11 3092 7100 +55 11 3092 7101 www.sdi.com.au	tda	SDI Germany GmbH Hansestrasse 85 Cologne D-51149 Germany +49 0 2203 9255 0 +49 0 2203 9255 200 www.sdi.com.au
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numbers		Not Available		Not Available
Other emergency telephone numbers ray.cahill@sdi.com.au		Not Available		Not Available
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Riva Self Cure (liquid)

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Classification according to regulation (EC) No 1272/2008 [CLP] [1]

Skin Corrosion/Imitation Category 2, Eye Irritation Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Legend:

2.2. Label elements



SIGNAL WORD WARNING

Hazard statement(s)

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

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

 P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

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/doctor/physician/first aider/fit you feet unwell.						
P337+P313	If eye irritation persists: Get medical advice/attention.						
P302+P352	IF ON SKIN: Wash with plenty of water and soap.						
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.						
P332+P313	If skin imitation occurs: Get medical advice/attention.						
P362+P364	Take off contaminated dothing and wash it before reuse.						
The second secon	* Harrier - Construction of the second secon						

Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

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

2.3. Other hazards

Ingestion may produce health damage*.

Cumulative effects may result following exposure*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to directive 67/548/EEC [DSD]	Classification according to regulation (EC) No 1272/2008 [CLP]
1.9003-01-4 2.Not Available 3.Not Available 4.Not Available	20-30	acrylic acid homopolymer	R36/37/38, R51/53 ^[1]	Skin Corrosion/Imitation Category 2, Eye Imitation Category 2, Specific target organ toxicity – single exposure Category 3 (respiratory tract imitation), Chronic Aquatic Hazard Category 2; H315, H319, H335, H411 [1]
1.87-69-4 2.201-766-0 3.Not Available 4.01-2119537204-47-XXXX, 01-2119851173-43-XXXX, 01-2119851174-41-XXXX	10-15	tartaric acid	R36/37/38 ^[1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation); H315, H319, H335 [1]

Continued...

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SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear
 Flush skin and hair with running water (and soap if available).
 Seek medical attention in event of initation.

If this product comes in contact with the eyes

- Immediately hold eyelids apart and flush the eye continuously with running water.
 Ensure complete infigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
 Continue flushing 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 furnes or combustion products are inhaled remove from contaminated a
- Seek medical attention.
 If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Give water to rinse ou
 Seek medical advice.

Eye Contact

If this product comes in contact with the eyes:

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete imgation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

 Continue flushing 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.

Skin Contact

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
 Seek medical attention in event of imitation.

Inhalation

- If furnes or combustion products are inhaled remove from contaminated area
- Seek medical attention.

- ▶ If swallowed do NOT induce vomiting
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully. Ingestion

If skin contact occurs:

- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Foam is generally ineffective

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

5.3. Advice for firefighters

- Alert Fire Brigade and tell them location and nature of hazard
- Wear full body protective clothing with breathing apparatus.

 Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.
- Fire Fighting Avoid spraying water onto liquid pools.

 - DO NOT approach containers suspected to be hot.

 Cool fire exposed containers with water spray from a protected location.
 - If safe to do so, remove containers from path of fire.
- Combustible.
 - Slight fire hazard when exposed to heat or flame.
 - Heating may cause expansion or decomposition leading to violent rupture of containers.
- bustion, may emit toxic furnes of carbon monoxide (CO). Fire/Explosion Hazard
 - May emit acrid smoke.

Misst containing combustible materials may be explosive.
 Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic material May emit poisonous furnes. May emit corrosive

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Minor Spills

- Remove all ignition sources

- Avoid breathing vapours and contact with skin and eyes
- Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.

Moderate hazard.

- Clear area of personnel and move upwind.
- 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 course.

 No smoking, naked lights or ignition sources.
- Increase ventilation

Major Spills

- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
 Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

6.4. Reference to other sections

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

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective dothing when risk of exposure occurs
- Use in a well-ventilated area.

 Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
 - Avoid smoking, naked lights or ignition sources.
- 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.

 - 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.
 DO NOT allow clothing wet with material to stay in contact with skin

Fire and explosion protection

Other information

Store in a dry and well ventilated-area, away from heat and sunlight.

Do not store in direct sunlight Store between 5 and 30 deg C.

7.2. Conditions for safe storage, including any incompatibilities

See section 5

Suitable container

- Packaging as recommended by manufacturer.
- Check that containers are clearly labelled and free from leaks Storage incompatibility Avoid strong bases.

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

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f/min.)

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
EMERGENCY LIMITS						**************************************
Ingredient	Material name			TEEL-1	TEEL-2	TEEL-3
acrylic acid homopolymer	Acrylic acid polyme	rs; (Acrylic polymer or resin)		7.5 mg/m3	83 mg/m3	500 mg/m3
tartanc acid	Tartaric acid			1.6 mg/m3	17 mg/m3	100 mg/m3
Ingredient	Original IDLH			Revised IDLH		***************************************
acrylic acid homopolymer	Not Available			Not Available		
tartaric acid	Not Available	5		Not Available		

8.2. Exposure controls

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

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

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed property. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special croumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. 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.

8.2.1. Appropriate engineering controls

Air Speed: vent, vapours, degreasing etc., evaporating from tank (in still air). 0.25-0.5 m/s (50-100 f/min) ols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating 0.5-1 m/s (100-200 acid fumes, pickling (released at low velocity into zone of active generation) f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into 1-2.5 m/s (200-500 zone of rapid air motion) f/min.) grinding, abrasive blasting, turnbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid 2.5-10 m/s (500-2000

Within each range the appropriate value depends on:

Type of Contaminant:

Lower end of the range	The second of th
	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
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

stance 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 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters 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.

8.2.2. Personal protection











Eye and face protection

Safety glasses with side shields. Chemi

Contact lense es may pose a special hazard; soft contact lenses may absorb and concentrate imitants. A written policy document, describing the wearing of Contact lenses may puse a special nazaru, soft contact entires may austru and contante entirents. A whiten pointy document, describing in elenses 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]

Skin protection

See Hand protection below

Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
 Wear safety footwear or safety gumboots, e.g. Rubber
 Rubber Gloves

Body protection

See Other protection below

- Overalls.
- Other protection
- PVC aprop Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

Thermal hazards

Not Available

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Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	•	A-PAPR-AUS / Class 1
up to 50 x ES	•	A-AUS / Class 1	
up to 100 x ES		A-2	A-PAPR-2 ^

^{^ -} Full-face

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)

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Colourtess liquid with slightly character	eristic, mixes with water.	
Physical state	Liquid	Relative density (Water = 1) Not Av	vailable
Odour	Not Available	Partition coefficient n-octanol / water Not Av	vailable
Odour threshold	Not Available	Auto-ignition temperature (°C) Not Av	vailable
pH (as supplied)	<2	Decomposition temperature Not Av	vailable
Melting point / freezing point (°C)	Not Available	Viscosity (cSt) Not Av	vailable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol) Not Ap	pplicable
Flash point (°C)	Not Available	Taste Not Av	railable
Evaporation rate	Not Available	Explosive properties Not Av	/ailable
Flammability	Not Available	Oxidising properties Not Av	vailable
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m) Not Av	railable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol) Not Av	vailable
Vapour pressure (kPa)	Not Available	Gas group Not Av	vailable
Solubility in water (g/L)	Miscible	pH as a solution (1%) Not Av	ailable
Vapour density (Air = 1)	Not Available	VOC g/L Not Av	silable

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2							-		
10.2.Chemical stability	 Unstable in the pres Product is considered Hazardous polymeria 	ed stable. isation will not	rials.							
10.3. Possibility of hazardous reactions	See section 7.2					11. BY 11. 11. 11.	1 10 10 100			
10.4. Conditions to avoid	See section 7.2			*						
10.5, Incompatible materials	See section 7.2									
10.6. Hazardous decomposition products	See section 5.3									
								. Treferonces		

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhaled

Ingestion

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial 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.

Accidental ingestion of the material may be damaging to the health of the individual.

Skin Contact	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 imitation 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 (spongioss)s and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material 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.							
Eye	Repeated or prolonged eye contact may cause inflat temporary impairment of vision and/or other transient							
Chronic	Long-term exposure to respiratory imitants may resu Limited evidence suggests that repeated or long-term	t in disease of the airways involving difficult breathing and related systemic problems. n occupational exposure may produce cumulative health effects involving organs or biochemical systems.						
Riva Self Cure (liquid)	TOXICITY Not Available	IRRITATION Not Available						
acrylic acid homopolymer	TOXICITY Oral (rat) LD50: 2500 mg/kgd ^[2]	IRRITATION Nil reported						
tartaric acid	TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: ca.920 mg/kg ^[1]	IRRITATION Nil reported						
Legend:	Value obtained from Europe ECHA Registered Su extracted from RTECS - Register of Toxic Effect of co	bstances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data hernical Substances						
ACRYLIC ACID HOMOPOLYMER	reactive airways dystunction syndrome (RADS) white of RADS include the absence of preceding respirator to hours of a documented exposure to the irritant. And on methacholine challenge testing and the lack of mit of RADS. RADS (or asthma) following an irritating in irritating substance. Industrial bronchitis, on the other	ren years after exposure to the material ceases. This may be due to a non-allergenic condition known as h can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis y disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes wersible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreadivity irrial lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis nalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the rhand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance ble after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.						
TARTARIC ACID	reactive airways dystunction syndrome (RADS) while of RADS include the absence of preceding respiratory to hours of a documented exposure to the imitant. A re on methacholine challenge testing and the lack of min of RADS. RADS (or asthma) following an imitating int imitating substance. Industrial bronchitis, on the other	en years after exposure to the material ceases. This may be due to a non-allergenic condition known as in can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes riversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity irmal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis lalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance le after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.						
Acute Toxicity	18	Carloscalda						
Skin Irritation/Corrosion		Carcinogenicity 💮						
Serious Eye Damage/Irritation	~	STOT - Single Exposure						
Respiratory or Skin	\$	STOT - Repeated Exposure						
sensitisation Mutagenicity	0	The second secon						
mutagenicity	2	Aspiration Hazard						

SECTION 12 ECOLOGICAL INFORMATION

12.1.	Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
acrylic acid homopolymer	EC50	384	Crustacea	389.869mg/L	3
acrylic acid homopolymer	EC50	96	Algae or other aquatic plants	8596.446mg/L	3
acrylic acid homopolymer	LC50	96	Fish	1684.686mg/L	3
tartaric acid	EC50	96	Algae or other aquatic plants	434.65983mg/L	3

Legend: X − Data available but does not fill the criteria for classification
✓ − Data required to make classification available
○ − Data Not Available to make classification

tartaric acid	LC50	96	Fish		>100mg/L	2
tartaric acid	EC50	48	Crustac	cea	93.313mg/L	2
tartaric acid	EC50	72	Algae o	or other aquatic plants	51.4043mg/L	2
tartaric acid	NOEC	72	Algae o	or other aquatic plants	3.125mg/L	2
Legend:	Aquatic Toxicity Dat	ta (Estimated) 4. US EPI	urope ECHA Registered S A, Ecotox database - Aqua oconcentration Data 8. Vei	atic Toxicity Data 5. ECETO	al Information - Aquatic Toxicity C Aquatic Hazard Assessment L	3. EPIWIN Suite V3.12 - Data 6. NITE (Japan) -
DO NOT discharge into sewer of	or waterways					
	ons, ren 400900, 1000 ₽00 apr					
12.2. Persistence and deg	gradability					
Ingredient	Persistence: Wate	r/Soil		Pe	ersistence: Air	
acrylic acid homopolymer	LOW			LC	OW	
tartaric acid	LOW			LC	w	
12.3. Bioaccumulative por	tential					
Ingredient	Bioaccumulation					
acrylic acid homopolymer	LOW (LogKOW = 0.	4415)			and the second second second second second	Makesan Arthur Jardin Hallander
tartaric acid	LOW (LogKOW = -1					
	LOW (LOGICOW = 1)					* 1.00 mm - 1.00
12.4. Mobility in soil						
Ingredient	Mobility					
acrylic acid homopolymer	HIGH (KOC = 1.201	1)		er verste stat is en samme of the state of the second seco		The state of the s
tartaric acid	HIGH (KOC = 1)					
	20 2010000 20			20 to 10 1801	and the state of the same and state and	
12.5.Results of PBT and v	PvB assessment P		В		т	
Relevant available data	Not Available		Not Available	The second of the second	Not Available	er en
PBT Criteria fulfilled?	Not Available		Not Available		Not Available	2000
12.6. Other adverse effects No data available						
SECTION 13 DISPOSAL	CONSIDERATION	15				
13.1. Waste treatment met	hods					
Product / Packaging disposal	 It may be neces In all cases disp Where in doubt 	sary to collect all wash wo osal to sewer may be su contact the responsible a Waste Management Auti	authority.	o enter drains. disposal. pulations and these should b	e considered first.	
Waste treatment options	Not Available					
Sewage disposal options	Not Available					
SECTION 14 TRANSPOR	T INFORMATION					
Labels Required						
Marine Pollutant	NO					
HAZCHEM						
THE RESERVE THE PARTY OF THE PA	Not Applicable				and a management of the second	Manager and the second second
Land transport (ADR): NO	REGULATED FOI	R TRANSPORT OF	DANGEROUS GOO	DS		
14.1.UN number	Not Applicable				THE STATE STREET STATE OF STREET	
14.2.Packing group	Not Applicable					196
14.3.UN proper shipping name	Not Applicable				- 1 - 6 Keep war - James of Helling Co.	
14.4.Environmental hazard	A					
	Not Applicable				THE R. LEWIS CO., LANSING MICH.	or the season of the season of
14.5 Transport hazard		pplicable			- 44	
14.5. Transport hazard class(es)	Class Not Ap	oplicable			- 11	

Classification code

Hazard Label

Not Applicable

Not Applicable

Special provisions Not Applicable Limited quantity Not Applicable Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. Packing group Not Applicable 14.3. UN proper shipping Not Applicable 14.4. Environmental hazard Not Applicable ICAO/IATA Class Not Applicable 14.5. Transport hazard class(es) ICAO / IATA Subrisk Not Applicable ERG Code Not Applicable Special provisions Not Applicable Cargo Only Packing Instructions Not Applicable Cargo Only Maximum Qty / Pack Not Applicable 14.6. Special precautions for Passenger and Cargo Packing Instructions Not Applicable Passenger and Cargo Maximum Qty / Pack Not Applicable Passenger and Cargo Limited Quantity Packing Instructions Not Applicable Not Applicable Passenger and Cargo Limited Maximum Qty / Pack Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. Packing group Not Applicable 14.3. UN proper shipping Not Applicable 14.4. Environmental hazard Not Applicable IMDG Class Not Applicable 14.5. Transport hazard IMDG Subrisk Not Applicable FMS Number Not Applicable 14.6. Special precautions for Special provisions Not Applicable user Limited Quantities Not Applicable Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. Packing group Not Applicable 14.3. UN proper shipping Not Applicable 14.4. Environmental hazard Not Applicable 14.5. Transport hazard Not Applicable Not Applicable class(es) Classification code Not Applicable Special provisions Not Applicable 14.6. Special precautions for Limited quantity Not Applicable Equipment required Not Applicable Fire cones number Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

ACRYLIC ACID HOMOPOLYMER(9003-01-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

TARTARIC ACID(87-69-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Continued...

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Riva Self Cure (liquid)

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European Customs Inventory of Chemical Substances ECICS (English) European List of Notified Chemical Substances (ELINCS)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

Index No

ECHA SUMMARY

Ingredient

ingredient	CAS number Ind	ex No	ECHA Dossi	er
acrylic acid homopolymer	9003-01-4 No	t Available	Not Available	Annual Company of the
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		rams Signal Code(s)	Hazard Statement Code(s)
1	Not Classified		HS08, Dgr, , GHS09, GHS02	H319, H335, H340, H350, H314, H332, H317, H290, H226, H302, H312
2	Not Classified, Skin Imit. 2, Eye Imit. 2, STOT SE 3, Muta. 1B, Aquatic Chronic 3, Skin Corr. 1A, Acute Tox. 4, Met. (Aquatic Acute 1	Corr 1 Flam Lin 3 VVng, G	HS08, Dgr. , GHS09, GHS02	H319, H335, H340, H350, H314, H332, H317, H290, H226, H302, H312
2	Skin Corr. 1B, Eye Dam. 1	GHS05	, Dgr	H314
Harmonisation Code 1 = The I	most prevalent classification. Harmonisation Code 2 = The most	t severe classification.		

tartaric acid	87-69-4	Not Available (01-2119537204-47-XXXX, 01-2119851173-4	I3-XXXX, 01-2119851174-41-XXXX	(
Harmonisation (C&L Inventory)	Hazard Class a	and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4, Ski	in Irrit. 2, Skin Sens. 1, Eye Irrit. 2,	STOT SE 3	GHS07, Wng	H302, H315, H317, H319, H335
2	Eye Dam. 1, Skir Aquatic Chronic		, Eye Irrit. 2, STOT SE 3, Not Classified,	GHS05, Dgr, Wng, GHS06	H318, H315, H302, H317,

ECHA Dossier

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Canada - NDSL	N (acrylic	acid homopolyr	ner; tartar	ic acid)
Canada - DSL	Υ Υ			
Australia - AICS	Y			
National inventory	Status			

CAS number

China - IECSC

Europe - EINEC / ELINCS /

N (acrylic acid homopolymer)

Japan - ENCS Korea - KECI New Zealand - NZIoC Philippines - PICCS USA - TSCA

Legend:

Y = All ingredients are on the inventory
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

H226	Flammable liquid and vapour.	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	
H340	May cause genetic defects.	
H350	May cause cancer.	
H411	Toxic to aquatic life with long lasting effects.	

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Riva Self Cure (liquid)

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Other information

DSD / DPD label elements



Relevant risk statements are found in section 2.1

Indication(s) of danger	XI
SAFETY ADVICE	
S02	Keep out of reach of children.
S23	Do not breathe gas/fumes/vapour/spray.
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S39	Wear eye/face protection.
\$40	To clean the floor and all objects contaminated by this material, use water.
S46	If swallowed, seek medical advice immediately and show this container or label.
S56	Dispose of this material and its container at hazardous or special waste collection point.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

For detailed advice on rensoring interests and micro-organisms EN 166 Personal eye-protection EN 340 Protective dothing EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Footwear protecting against chemicals EN 133 Respiratory protective devices

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

ACCIH: American Conference of Governmental Industrial Hygis 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
TLY: 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:

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Department issuing SDS: Research and Development
Contact: Technical Director