

SDI Limited

Version No: 4.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830) Issue Date: **18/03/2016** Print Date: **31/03/2016** Initial Date: **Not Available** L.REACH.GBR.EN

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

1.1.Product Identifier

Product name	Riva Star
Synonyms	Not Available
Proper shipping name	AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia
Other means of identification	Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	(Riva Star is comprised of Riva Star Step 1 and Riva Star Step 2) for use as a tooth desensitising agent.	
Uses advised against	Not Applicable	

1.3. Details of the supplier of the safety data sheet

Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH		
Address	3-15 Brunsdon Street VIC Bayswater 3153 Australia	Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil	Hansestrasse 85 Cologne D-51149 Germany		
Telephone	+61 3 8727 7111 (Business Hours)	+61 3 8727 7111 (Business Hours) +55 11 3092 7100 +49 0 2203 9255			
Fax	+61 3 8727 7222	+55 11 3092 7101	+49 0 2203 9255 200		
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au		
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au		
Registered company name	SDI (North America) Inc.				
Address	1279 Hamilton Parkway IL Itasca 60143 United States				
Telephone	+1 630 361 9200 (Business hours)				
Fax	Not Available				
Website	Not Available				
Email	USA.Canada@sdi.com.au				

1.4. Emergency telephone number

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

SECTION 2 HAZARDS IDENTIFICATION

2.1.Classification of the substance or mixture

Considered a dangerous mixture according to Directive 1999/45/EC, Reg. (EC) No 1272/2008 (if applicable) and their amendments. Classified as Dangerous Goods for transport purposes.

DSD classification In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) and CLP Regulation (EC) No 1272/2008 regulations

DPD classification ^[1]	R34 Causes burns. R50 Very toxic to aquatic organisms.
Legend:	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
Classification according to regulation (EC) No 1272/2008 [CLP] ^[1]	Metal Corrosion Category 1, Skin Corrosion/Irritation Category 1B, Acute Aquatic Hazard Category 1
Legend:	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

2.2. Label elements



SIGNAL WORD	DANGER
Hazard statement(s)	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P234	Keep only in original container.	
P273	Avoid release to the environment.	

Precautionary statement(s) Response

P301+P330+P331	SWALLOWED: Rinse mouth. Do NOT induce vomiting.			
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTER/doctor/physician/first aider.			
P363	Wash contaminated clothing before reuse.			
P390	Absorb spillage to prevent material damage.			
P391	Collect spillage.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			

Precautionary statement(s) Storage

P405 Store locked up.

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]
		each 0.05ml capsule of Riva Star Step 1 contains:		

4.Not Available	1. Classifica	tion by vendor; 2. Classific	ation drawn from EC Directive (67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex V
1.Not Available 2.Not Available 3.Not Available 4.Not Available	100	Ingredients determined not to be hazardous	Not Applicable	Not Applicable
		Riva Star Step 2 contains:		
1.7732-18-5 2.231-791-2 3.Not Available 4.Not Available	balance	water_	Not Applicable	Not Applicable
1.1336-21-6 2.215-647-6 3.007-001-01-2, 007-001-00-5 4.01-2119488876-14-XXXX	15-20	<u>ammonia</u>	R34, R50 ^[2]	Skin Corrosion/Irritation Category 1B, Acute Aquatic Hazard Category 1; H314, H400 $^{\left[3\right] }$
1.7775-41-9 2.231-895-8 3.Not Available 4.01-2119513211-60-XXXX	35-40	silver(I) fluoride	R23/24/25, R35, R41 ^[1]	Metal Corrosion Category 1, Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Acute Toxicity (Inhalation) Category 3, Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1; H290, H301, H311, H331, H314, H318 ^[1]

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

General	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 irritation. 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 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 fumes 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. 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.
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 irrigation 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	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 irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Seek medical attention.
Ingestion	 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. 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

- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

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Riva Star

Fire Incompatibility	None known.	
5.3. Advice for firefighters		
Fire Fighting	 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 fire fighting procedures suitable for surrounding area. 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. Equipment should be thoroughly decontaminated after use. 	
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit corrosive, poisonous fumes. May emit acrid smoke. Decomposition may produce toxic fumes of; nitrogen oxides (NOx) ammonia 	

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills immediately. 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. Place in a suitable, labelled container for waste disposal.
Major Spills	 Clear area of personnel and move upwind. 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. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. 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

	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. 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 scap 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.
Fire and explosion protection	See section 5
Other information	Do not store in direct sunlight. Store in a dry and well ventilated-area, away from heat and sunlight.

Suitable container DO NOT repack. Use containers supplied by manufacturer only. Storage incompatibility Avoid contact with copper, aluminium and their alloys.

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

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs)	silver(I) fluoride	Silver (soluble compounds as Ag)	0.01 mg/m3	Not Available	Not Available	Not Available
UK Workplace Exposure Limits (WELs)	silver(I) fluoride	Fluoride (inorganic as F)	2.5 mg/m3	Not Available	Not Available	Not Available
European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)	silver(I) fluoride	Fluorides, inorganic	2,5 mg/m3	Not Available	Not Available	Not Available
European Union (EU) Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values (IOELVs)	silver(I) fluoride	Silver (soluble compounds as Ag)	0,01 mg/m3	Not Available	Not Available	Not Available
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	silver(I) fluoride	Silver (soluble compounds as Ag)	0.01 mg/m3	Not Available	Not Available	Not Available
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	silver(I) fluoride	Inorganic Fluorides	2.5 mg/m3	Not Available	Not Available	Skin
UK Workplace Exposure Limits (WELs)	ammonia	Ammonia, anhydrous	18 mg/m3 / 25 ppm	25 mg/m3 / 35 ppm	Not Available	Not Available
European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)	ammonia	Ammonia, anhydrous	14 mg/m3 / 20 ppm	36 mg/m3 / 50 ppm	Not Available	Not Available
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	ammonia	Ammonia	14 mg/m3 / 20 ppm	36 mg/m3 / 50 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TE	EL-2	TEEL-3
ammonia	Ammonium hydroxide	61 ppm	330) ppm	2300 ppm
ammonia	Ammonia	Not Available	Not	t Available	Not Available
Ingredient	Original IDLH			Revised IDLH	
silver(I) fluoride	N.E. mg/m3 / N.E. ppm		10 mg/m3		
ammonia	500 ppm			300 ppm	
water	Not Available		Not Available		
Ingredients determined not to be hazardous	Not Available			Not Available	

MATERIAL DATA

8.2. Exposure controls

8.2.1. Appropriate engineering 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 effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. 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. 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 circumstances. 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.
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	Type of Contaminant:	Air Speed:	
	solvent, vapours, degreasing etc., evaporating from tank (in still air).		
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 0.5-f/mit direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2. f/mit grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion) 2.5-f/mit		
	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. 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		
	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 fm solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance defici apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or	ts within the extraction	
8.2.2. Personal protection	solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance defici	ts within the extraction	
8.2.2. Personal protection	solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance defici	ts within the extraction r used. escribing the wearing of Isorption for the class of le equipment should be le. Lens should be remo	
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Eye and face protection	 solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance defici apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of the system of the system of the systems are installed of the system of the system of the systems are installed of the system of th	ts within the extraction r used. escribing the wearing o Isorption for the class of le equipment should be le. Lens should be remu	
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Eye and face protection Skin protection Hands/feet protection	 solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance defici apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed of the provide of the systems are installed of the systems are on use, should be created for each workplace or task. This should include a review of lens absorption and and chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suital readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicab at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protective gloves, e.g. PVC. Wear chemical protective gloves, e.g. Rubber Rubber Gloves 	ts within the extraction r used. escribing the wearing o Isorption for the class o le equipment should be le. Lens should be remo	

Respiratory protection

Type AK 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 5 x ES	AK-AUS / Class 1	-	AK-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	AK-2	AK-PAPR-2
up to 50 x ES	-	AK-3	-
50+ x ES	-	Air-line**	-

^ - 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	Clear, colourless liquid with ammonia odour.			
Physical state	Liquid	Relative density (Water = 1)	1.2	

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	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 Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2.Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
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

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhaled	Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	The material can produce chemical burns following direct contact with the skin. 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	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating.
Chronic	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Repeated or prolonged exposure to acids may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis. The impact of inhaled acidic agents on the respiratory tract depends upon a number of interrelated factors. These include physicochemical characteristics, e.g., gas versus aerosol; particle size (small particles can penetrate deeper into the lung); water solubility (more soluble agents are more likely to be removed in the nose and mouth). Given the general lack of information on the particle size of aerosols involved in occupational exposures to acids, it is difficult to identify their principal deposition site within the respiratory tract. Acid mists containing particles with a diameter of up to a few micrometers will be deposited in both the upper and lower airways. They are irritating to muccus epithelia, they cause dental erosion, and they produce acute effects in the lungs (symptoms and changes in pulmonary function). Asthmatics appear to be at particular risk for pulmonary effects.

Riva Star	TOXICITY Not Available	IRRITATION Not Available
silver(l) fluoride	TOXICITY Not Available	IRRITATION Not Available
ammonia	TOXICITY Inhalation (rat) LC50: 2000 ppm/4h ^[2] Oral (rat) LD50: 350 mg/kgE ^[2]	IRRITATION Eye (rabbit): 0.25 mg SEVERE Eye (rabbit): 1 mg/30s SEVERE

Legend:	 Value obtained from Europe ECHA Registered Substances - Acu extracted from RTECS - Register of Toxic Effect of chemical Substances 		rom manufacturer's SDS. Unless otherwise specified data
SILVER(I) FLUORIDE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. No significant acute toxicological data identified in literature search.		
AMMONIA	No significant acute toxicological data identified in literature search. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible affer exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.		
WATER	No significant acute toxicological data identified in literature search		
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	 ✓ 	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	⊗ st	OT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	\otimes
			 Data available but does not fill the criteria for classificatio Data required to make classification available

🚫 - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
ammonia	LC50	96	Fish	15mg/L	4
ammonia	NOEC	72	Fish	3.5mg/L	4
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	LC50	96	Fish	897.520mg/L	3
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Very toxic to aquatic organisms. DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ammonia	LOW	LOW
water	LOW	LOW

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
ammonia	LOW (LogKOW = 0.229)
water	LOW (LogKOW = -1.38)

12.4. Mobility in soil

Ingredient	Mobility
ammonia	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)

12.5.Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Product / Packaging disposal Image: Note of the image of

Waste treatment options Not Available Sewage disposal options Not Available

SECTION 14 TRANSPORT INFORMATION

Labels Required

	CORROSIVE 8
Marine Pollutant	
HAZCHEM	2R

Land transport (ADR)

14.1.UN number	2672		
14.2.Packing group	Ш		
14.3.UN proper shipping name	AMMONIA SOLUTION, relative de	AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia	
14.4.Environmental hazard	Not Applicable		
14.5. Transport hazard class(es)	Class 8 Subrisk Not Applicable		
	Hazard identification (Kemler)	80	
	Classification code	C5	
14.6. Special precautions for user	Hazard Label	8	
	Special provisions	543	
	Limited quantity	5L	

Air transport (ICAO-IATA / DGR)

	-			
14.1. UN number	2672			
14.2. Packing group	ш			
14.3. UN proper shipping name	Ammonia solution relative	Ammonia solution relative density (specific gravity) between 0.880 and 0.957 at 15°C in water, with more than 10% but not more than 35% ammonia		
14.4. Environmental hazard	Not Applicable			
14.5. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable 8L		
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack		A64A803 856 60 L	

Passenger and Cargo Packing Instructions	852
Passenger and Cargo Maximum Qty / Pack	5 L
Passenger and Cargo Limited Quantity Packing Instructions	Y841
Passenger and Cargo Limited Maximum Qty / Pack	1L
	Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions

Sea transport (IMDG-Code / GGVSee)

	·,
14.1. UN number	2672
14.2. Packing group	Ш
14.3. UN proper shipping name	AMMONIA SOLUTION relative density between 0.880 and 0.957 at 15°C in water, with more than 10% but not more than 35% ammonia
14.4. Environmental hazard	Marine Pollutant
14.5. Transport hazard class(es)	IMDG Class 8 IMDG Subrisk Not Applicable
14.6. Special precautions for user	EMS Number F-A, S-B Special provisions Not Applicable Limited Quantities 5 L

Inland waterways transport (ADN)

14.1. UN number	2672		
14.2. Packing group			
14.3. UN proper shipping name	AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia		
14.4. Environmental hazard	Not Applicable		
14.5. Transport hazard class(es)	8 Not Applicable		
14.6. Special precautions for user	Classification code C5 Special provisions 543 Limited quantity 5 L Equipment required PP, EP Fire cones number 0		

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

Not Applicable

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met: Chemical Kit UN3316 - Class 9.

SECTION 15 REGULATORY INFORMATION

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

SILVER(I) FLUORIDE(7775-41-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

V(s) European Llaion (ELI) First List of Indicative Occupational

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs) European Customs Inventory of Chemical Substances ECICS (English)

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

European Union (EU) Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values (IOELVs)

European Union (EU) Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values (IOELVs) (Spanish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Bulgarian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Czech)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Danish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Dutch)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Estonian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Finnish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (French)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (German)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Greek)

AMMONIA(1336-21-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)

European Customs Inventory of Chemical Substances ECICS (English)

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

European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Bulgarian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Czech)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Danish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Dutch)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Estonian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Finnish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (French)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (German)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Greek)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex IV - Exemptions from the Obligation to Register in Accordance with Article 2(7)(a) (English)

European Customs Inventory of Chemical Substances ECICS (English)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Hungarian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Italian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Latvian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Lithuanian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Maltese)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Polish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Portuguese)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Romanian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovak)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovenian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Spanish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Swedish)

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

UK Workplace Exposure Limits (WELs)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Hungarian) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Italian) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Latvian) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Lithuanian) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Maltese) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Polish) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Portuguese European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Romanian) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovak) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovenian) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Spanish) European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Swedish) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI UK Workplace Exposure Limits (WELs)

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, 94/33/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.

ECHA SUMMARY

Ingredient	CAS number	Index No		ECHA Dossier	
silver(I) fluoride	7775-41-9	Not Available		01-2119513211-60-XXX	x
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word	Code(s)	Hazard Statement Code(s)
1	Skin Corr. 1B		GHS05, Dgr		H314
2	Skin Corr. 1B, Acute Tox. 4, Eye Dam. 1		GHS05, Dgr, GHS09		H314, H312, H302, H332

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

Ingredient	CAS number	Index No	ECHA Doss	sier
ammonia	1336-21-6	007-001-01-2, 007-001-00-5	01-21194888	376-14-XXXX
Harmonisation (C&L Inventory)	Hazard Class and Category Cod	Hazard Class and Category Code(s)		nal Hazard Statement Code(s)
1	Skin Corr. 1B, Aquatic Acute 1, Flam. Gas 2, Acute Tox. 3		GHS09, GHS05, GHS06, GHS04	Dgr, H314, H221, H331
2	Chronic 2, Met. Corr. 1, Acute Tox. Chronic 3, Skin Corr. 1C, STOT S	Skin Corr. 1B, Aquatic Acute 1, Acute Tox. 3, Acute Tox. 4, Eye Dam. 1, STOT SE 3, Aquatic Chronic 2, Met. Corr. 1, Acute Tox. 2, Skin Corr. 1A, Not Classified, Eye Irrit. 2, Aquatic Chronic 3, Skin Corr. 1C, STOT SE 2, STOT RE 2, Skin Irrit. 2, Aquatic Chronic 1, Flam. Gas 2, Press. Gas., Liq. Gas, Flam. Liq. 3, Flam. Gas 1, Asp. Tox. 1		Dgr, Wng, H314, H301, H312, H318, H335, H290, H330, H371, H373, H221, H280, H226, H304
1	Flam. Gas 2, Skin Corr. 1B, Acute	Flam. Gas 2, Skin Corr. 1B, Acute Tox. 3, Aquatic Acute 1		Dgr H221, H314, H331
2	Flam. Gas 2, Skin Corr. 1B, Acute	Flam. Gas 2, Skin Corr. 1B, Acute Tox. 3, Aquatic Acute 1		Dgr H221, H314, H331
1	Skin Corr. 1B, Aquatic Acute 1	Skin Corr. 1B, Aquatic Acute 1		Dgr H314
2	Skin Corr. 1B, Aquatic Acute 1		GHS09, GHS05,	Dgr H314

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

Ingredient	CAS number	Index No		ECHA Dossier	
water	7732-18-5	Not Available		Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal V	Vord Code(s)	Hazard Statement Code(s)
1	Not Classified		GHS06, GHS05, Dgr,	GHS02, Wng	H301, H226, H314
2	Not Classified, Acute Tox. 3, Skin Corr. 1A, Acute Tox. 2, Flam. Liq. 3		GHS06, GHS05, Dgr,	GHS02, Wng	H301, H226, H314
Harmonisation Code 1 = The n	nost prevalent classification. Harmonisation Code $2 = Th$	e most severe classifica	ation.		

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	N (silver(I) fluoride)
Canada - NDSL	N (ammonia; water)
China - IECSC	N (silver(I) fluoride)
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (water; silver(I) fluoride)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	N (silver(I) fluoride)
USA - TSCA	Υ
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

H221	Flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
H373	May cause damage to organs.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R35	Causes severe burns.
R41	Risk of serious damage to eyes.

Other information

DSD / DPD label elements



Relevant risk statements are found in section 2.1

Indication(s) of danger	Ν
SAFETY ADVICE	
S01	Keep locked up.
S02	Keep out of reach of children.
S04	Keep away from living quarters.
S20	When using do not eat or drink.
S21	When using do not smoke.
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.
S281	After contact with skin, wash immediately with detergent and plenty of water.
S29	Do not empty into drains.
S35	This material and its container must be disposed of in a safe way.
S36	Wear suitable protective clothing.
\$37	Wear suitable gloves.
S39	Wear eye/face protection.
S40	To clean the floor and all objects contaminated by this material, use water and detergent.
S45	In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible).
S56	Dispose of this material and its container at hazardous or special waste collection point.
S57	Use appropriate container to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

Ingredients with multiple cas numbers

Name	CAS No
ammonia	1336-21-6, 14798-03-9

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:

EN 166 Personal eye-protection

EN 340 Protective clothing

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 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 LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOD: Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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

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

Contact: Technical Director