

MATERIAL SAFETY DATA SHEET

Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

COMPANY	Delshine Chemicals
ABN NUMBER	21 009 447 769
ADDRESS	Unit 1 / 30 Prindiville Drive, Wangara
FACSIMILE NUMBER	(08) 9309 4334
TELEPHONE NUMBER	(08) 9309 4222
EMERGENCY TELEPHONE	041 992 7281 (After hours)
EMAIL	delshine-chemicals@bigpond.com
WEB SITE	www.delshinechemicals.com

BRAND NAME – CALCIUM REMOVER
TRADE NAME – CALCIUM REMOVER
SHIPPING NAME (section 14) SULFAMIC ACID

USE – FOR THE REMOVAL OF CALCIUM BUILD UP ON GLASS SURFACES , TILES ETC

RESTRICTIONS – KEEP AWAY FROM OXIDIZERS , CHLORINE AND NITRIC ACID

Section 2 HAZARDS CLASSIFICATION / IDENTIFICATION

CLASSIFIED AS HAZARDOUS – According to the criteria of NOHSC and Classified as a dangerous good according to the ADG Code.

UN NUMBER : 2967

Emergency Overview – Corrosive . May be fatal if swallowed. Harmful if inhaled. Causes severe irritation and burns to every area of contact. May cause lung damage.

Potential Health Effects –

Inhalation – Extremely destructive to tissue of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath headache, nausea and vomiting. May cause pulmonary oedema (can be delayed up to 48 hours.)

Ingestion – Swallowing can cause severe burns of the mouth , throat and stomach leading to death. Can cause sore throat , vomiting and diarrhoea.

Skin contact – Corrosive . Symptoms of redness pain and severe burns can occur.

Eye contact – Corrosive. Can cause blurred vision, redness , pain ,severe tissue burns and eye damage.

Chronic Exposure – No information found – **Aggravation of pre existing conditions** – no information found.

CONTINUE HAZARDS CLASSIFICATION / IDENTIFICATION

RISK PHRASES : R36/38 Irritating to eyes and skin
R52 Harmful to aquatic organism
R53 May cause long term adverse effects in the aquatic environment.

SAFETY PHRASES: S1/2 Keep locked up and out of reach of children
S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin wash immediately with plenty of soap suds.
S61 Avoid release to the environment.

Section 3 COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Entity:	CAS No:	Proportion (% mass)
Sulphamic Acid	5329-14-6	>60

Section 4 FIRST AID MEASURES

Inhalation – Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . Get medical attention immediately.

Ingestion – If swallowed DO NOT induce vomiting, give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin - Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean shoes before re use. Get medical attention immediately.

Eye – Immediately flush eyes with plenty of water for at least 15 minutes, lifting the lower and upper eyelids occasionally. Get medical attention immediately.

Note to physician – For severe exposures monitor for delayed onset of pulmonary oedema.

First Aid Facilities: **Ensure an eye bath and safety shower are available and ready for use.**

Section 5 FIRE FIGHTING MEASURES

Fire – Not considered to be a fire hazard.

Explosion - Not considered to be an explosion hazard.

Fire Extinguishing Media – Use any means suitable for extinguishing surrounding fire.

Special Information – In the event of a fire wear full protective clothing and NIOSH approved self contain breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

HAZCHEM CODE : 2 X

Section 6 ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Keep unnecessary and unprotected people away of spills. Wear appropriate personal protective equipment as specified in section 8.

Spills – Pick up and place in a suitable containers for reclamation or disposal using a method that does not generate dust.

Section 7 HANDLING AND STORAGE

CLASS - 8

Material may be hazardous when empty since they retain product residues (dust soils) observe all Warnings and precautions listed for the product.

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits – None established.

Ventilation System – A system of local and or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source preventing dispersion of it into the general work area.

Personal Respirators – (AS Approved) For conditions of use where exposure to the dust or mist is apparent a half face dust mist respirator may be worn. For emergencies or instances where the exposure levels are not known use a full face positive pressure air supplied respirator. WARNING air purifying respirators do not protect workers in oxygen deficient atmospheres.

Skin Protection – Wear impervious protective clothing including boots , gloves , lab coat , apron or coveralls as needed to prevent skin contact.

Eye Protection – Use chemical safety goggles and or full face shield where dusting or splashing of solution is possible. Maintain eye wash fountain and quick drench facilities in work area.

Section 9 PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE -White to colourless crystals **ODOUR - None**

PH - 1.18 (1% Solution at 25°)

VAPOUR PRESSURE – Not available

BOILING POINT °C - Decomposes

VAPOUR DENSITY – (Air = 1) 3.3

FREEZING POINT °C – Not available

SOLUBILITY - Complete

SPECIFIC GRAVITY

ADDITIONAL INFORMATION

Section 10 STABILITY & REACTIVITY

Stability – Stable under ordinary conditions of use and storage. Solutions are acidic. In water solution slowly hydrolyzes to form ammonium sulfate and bisulfate.

Hazardous Decomposition Products – May emit ammonia, oxides of sulfur, oxides of nitrogen and oxides of carbon.

Hazardous Polymerization- Will not occur.

Incompatibilities – Strong oxidizers nitric acid and chlorine. Solutions are strong acids and react violently with bases.

Conditions to Avoid – Dusting and incompatibles.

Section 11 TOXICOLOGICAL INFORMATION

Sulfamic Acid – Oral rat LD50 :3160mg/kg ; Irritation data : skin human standard Draize : 4% 5D-I mild. Skin rabbit, standard Draize 500mg/24hrs severe. Eye rabbit standard Draize 250ug/24hr severe. Not an NTP or IARC carcinogen.

Section 12 ECOLOGICAL INFORMATION

Environmental Fate – No information found.

Environmental Toxicity – No information found.

Section 13 DISPOSAL CONSIDERATIONS

What ever cannot be saved for recovery or re cycling should be managed in an appropriate and approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 TRANSPORT INFORMATION

UN NUMBER : 2967

UN PROPER SHIPPING NAME : SULPHAMIC ACID

CLASS: 8

PACKING GROUP: 111

HAZCHEM CODE: 2 X

Section 15 REGULATORY INFORMATION

Australian Inventory of Chemical Substances – Sulfamic Acid (CAS 5329-14-6) is listed
NOHSC Labelling – Xi Irritant :R36/38 Irritating to eyes and skin. R52 Harmful to aquatic organisms, R53 May cause long term adverse effects in the aquatic environment. S1/2 Keep locked up and out of reach of children, S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice, S28 After contact with skin wash immediately with plenty of soap suds. S61 Avoid release to the environment.

CONTINUE SECTION 15 REGULATORY INFORMATION

SUSDP Labelling – Poisons Schedule S6 Safety Directions – Strong acidic .Avoid contact with skin and eyes.

First Aid Instructions – For advice contact a Poisons Information Centre (131 126) or a doctor at once. If swallowed DO NOT induce vomiting . If in eyes hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor for at least 15 minutes. If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water.

Section 16 OTHER INFORMATION

SARA 302-SARA 313

Ingredient	RQ	TPQ	List	Chemical Catg
Sulfamic Acid 5329-14-6	No	No	No	No
RCRA – TSCA				
Ingredient	CERCLA	261.33	8(d)	
Sulfamic Acid 5329-14-6	No	No	No	

DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET :

6TH May 2008

CONTACT POINT – Les Buss – TELEPHONE (08) 9309 4222

AUTHORISATION FOR ISSUE

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DATE

Les Buss

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