

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Aluminium Brightener

Recommended Use: Cleaning Aluminium surfaces and Aluminium products

Supplier: Midland Chemicals
ABN: 91 622 018 986

Street Address: 18 Elliott Street
Midvale
Western Australia

Telephone Number: +61 08 9274 1992

Facsimile: +61 08 9250 1710

Emergency Telephone: **1 800 033 111 (ALL HOURS)**

2. HAZARDS IDENTIFICATION

Hazardous to criteria of Safe work Australia

Road and Rail; DANGEROUS GOODS.

Risk Phrases: Harmful if swallowed. Risk of damage to eyes.

Safety Phrases: Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

Poisons Schedule: 6

Packaging group number: II

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Hydro Fluoric Acid	7664-39-3	<5%	
Sulphuric Acid	7664-93-9	<21%	
Phosphoric Acid	7664-38-2	<10%	
Non Toxic Dye		<1%	
Biodegradable Surfactants		<5%	
Water		To 100%	

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4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Inhalation:

Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek medical advice.

Skin Contact:

Remove all contaminated clothing and wash affected area with plenty of soap and water. Immediately apply Calcium Gluconate Gel.

Eye Contact:

Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention.

Ingestion:

Do not induce vomiting. Give quantities of water to drink. Seek immediate medical attention. Take calcium carbonate tablets if available. (Read instructions for dosage).

Medical attention and special treatment:

Treat symptomatically and as for exposure to highly corrosive.

First Aid Facilities:

Ensure that Calcium Gluconate Gel (within the expiry date) or Calcium Carbonate tablets are available. Water and washing facilities in close proximity.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Non-combustible material

Precautions for fire fighters and special protective equipment:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Keep containers cool with water spray.

Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire, use: Fine water spray, dry agent (carbon dioxide, chemical foam)

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Clear area of all unprotected personnel. If heavy concentration of contamination of sewers or waterways has occurred advise local emergency services, or Environmental Protection Authority.

Methods and materials for containment and clean up:

Contain spillage using sand and earth and neutralise with Soda Ash, prevent runoff into drains. Use absorbent. Collect and seal in properly labelled drums

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7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

Conditions for safe storage:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Minimisation of exposure should be put into practice at all times. Work Safe recommends TWA 3 ppm
2.6 mg/m³ peak limitation.

Engineering controls:

If used in enclosed area then provide adequate general (dilution) and local exhaust ventilation. It is advisable to use only in a well ventilated area, to minimise exposure. Ensure ventilation is adequate to maintain air concentrations below exposure standards

Personal Protective Equipment:

Wear chemical goggles, wear chemical gloves and appropriate personal protection such as respiratory filters and breathing apparatus. (To avoid breathing vapours). Wear protective overalls. Wear appropriate personal protection such as:- Chemical goggles, PVC gloves, PVC boots, PVC Overalls. To avoid breathing vapours wear full face respiratory breathing apparatus respirators that comply to A.S. 1716 and use in accordance with A.S. 1715 requirements with organic vapour, acid gas, filters.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Green

Solubility: Miscible in water.

Specific Gravity: 1.07

Relative Vapour Density (air=1): Not available

Vapour Pressure (20 °C): Not available

Flash Point (°C): Not applicable

Flammability Limits (%): Not flammable

Auto Ignition Temperature (°C): Not applicable

Boiling Point/Range (°C): 100°C

pH: 3.2 @ 1% solution

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10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid:	Store in a cool place and out of direct sunlight, away from alkali's, foodstuffs and oxidising materials. Normal good handling and storage procedures apply.
Incompatible materials:	Incompatible with strong oxidising agents.
Hazardous decomposition products:	None known
Hazardous reactions:	None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Can lead to severe burning and/or perforation of the digestion system.
Eye contact:	Contact with eyes even for short periods can cause blindness.
Skin contact:	Severe irritant may cause skin burns, can be absorbed through the skin with toxic effects.
Inhalation:	Strong irritant and corrosive. Can result in nausea, vomiting, abdominal pain, diarrhoea, and stupor, progressing to tremors, convulsions, collapse, difficulty in breathing, and respiratory cardiac failure
Short term Effects:	Short term effects by all routes is considered to be toxic. Risk of Calcium Depletion and Skin Burns. Toxic by inhalation, contact with skin, or Swallowed
Long Term Effects:	No information available for the product.
Toxicological Data:	No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways
Persistence and degradability	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise The product itself and its products of degradation are not toxic

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13. DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

14. TRANSPORT INFORMATION

Road and Rail Transport

classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; DANGEROUS GOODS.

UN No: 2922 N.O.S

Class-Primary: 8 corrosive

Packing Group: II

Proper Shipping Name: Heavy Duty Multi Cleaner (HDMC)

Hazchem Code: 2X

Marine Transport

classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 2922 N.O.S

Class-Primary: 8 corrosive

Packing Group: II

Proper Shipping Name: Heavy Duty Multi Cleaner (HDMC)

Hazchem Code: 2X

Air Transport

classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 2922 N.O.S

Class-Primary: 8 corrosive

Packing Group: II

Proper Shipping Name: Heavy Duty Multi Cleaner (HDMC)

Hazchem Code: 2X

15. REGULATORY INFORMATION

Classification: Hazardous according to criteria of Safe work Australia; HAZARDOUS SUBSTANCE

Hazard Category: C: Corrosive

Risk Phrase(s): R20: harmful by inhalation
R21: harmful in contact with skin
R22: harmful if swallowed.
R34: Causes burns.

Safety Phrase(s): S7: Keep container tightly closed
S9: Keep well ventilated place
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36: Wear suitable protective clothing
S37: Wear suitable gloves
S39: Wear suitable eye/face protection.
S45: In case of accident or if you feel unwell, contact a doctor or Poison Information Centre immediately (show the label where possible).

Poisons Schedule: S6

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16. OTHER INFORMATION

CALCIUM GLUCONATE GEL and calcium carbonate tablets are available from Ajax chemicals Ph: (02) 9735 8000 and first aid supply companies.
Or the following Distributors

	Telephone No.	Facsimile No.
N.S.W		
Aust. Scientific Pty Ltd	1800 021083	(02) 4956 2525
Bacto Laboratories Pty Ltd	612 8784 7000	612 9601 8293
Crown Scientific Pty Ltd	1300 727 696	1300 135 123
Selby Scientific Ltd	163 9263 4300	
VIC		
Crown Scientific Pty Ltd	(03) 9764 4722	(03) 9764 4733
Laboratory Supply Pty Ltd	(03) 9558 4477	(03) 9558 4566
Science Supply Associates Pty Ltd	(03) 9543 7144	(03) 9544 7214
Selby Scientific Ltd	13 29 91	T/F 1800 067 639
TAS		
Crown Scientific Pty Ltd	(03) 6229 7437	(03) 6229 2748
Selby Scientific Ltd	13 29 91	T/F 1800 067 639
QLD		
Crown Scientific Pty Ltd	1300 727 696	1300 135 123
Laboratory Supply Pty Ltd	(07) 3394 2000	(07) 3397 0588
North QLD	(077) 71 4144	(077) 71 4177
Selby Scientific Ltd (North QLD)	13 29 91	T/F 1800 067 639
SA		
Crown Scientific Pty Ltd	1300 727 696	1300 135 123
Laboratory Supply Pty Ltd	(08) 8277 4344	(08) 8276 5592
Selby Scientific Ltd (North QLD)	13 29 91	T/F 1800 067 639
NT		
Medical & Laboratory Supplies Pty Ltd	(08) 8947 2226	(08) 8984 3114
Selby Scientific Ltd	13 29 91	T/F 1800 067 639
WA		
Crown Scientific Pty Ltd	1300 727 696	1300 135 123
Rowe Scientific Pty Ltd	(08) 9302 1911	(08) 9302 1905
Selby Scientific Ltd	613 9263 4300	

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Calcium Gluconate Gel (2.5 calcium gluconate)

Can be obtained from:

1. Pharmacies, in each State or Territory, who have an account with Fauldings Health Care.
2. Ajax chemicals or their distributors in each State or Territory (see attached listing).

Calcium Gluconate Tablets

Can be obtained from:

1. Pharmacies, in each State or Territory, who have an account with Fauldings Health Care. Brand names "Bioglam" or "Vitraglow" – 500mg calcium.
2. Pharmacies, in each State or Territory, who have an account with Novatix (formerly Sandoz) Brand name 1000mg calcium
3. Pharmacies – "Natures Own" brand 500mg calcium

CALCIUM GLUOCONATE IV (B.P.)

Available from David Bull (Fauldings) 10ml ampoules

Other Sources of Calcium

Available from Pharmacies or Health Stores

- Calcium Carbonate tablets in 200mg or 600mg dose
- Calcium phosphate – 600mg dose

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Midland Chemicals cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Midland Chemicals at the contact details on page 1.

Midland Chemical's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.