

Material Safety Data Sheet

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Hazardous according to criteria of Worksafe Australia

PRELUDE ALUETCH

1. IDENTIFICATION OF THE MATERIAL & SUPPLIER

Product Name: PRELUDE ALUETCH

Synonyms: None allocated

Use: Aluminium etch

Australian Chemicals and Coatings P/L
69 Quantum Close, Dandenong South VIC 3175
Tel: (61 3) 9799 9833
Fax: (61 3) 9799 9033
Email: sales@auschem.com.au
Website: www.auschem.com.au

A.C.N. 007 345 351

A.B.N. 92 884 104 142

Emergency Advice All Hours:

A.H. Emergency No (03) 9799 9833 Technical Manager

Supplied by
Caswell Australia P/L
FACTORY 1, 51 ELM PARK DRIVE
HOPPERS CROSSING 3029
VICTORIA

PH 03 9741 7103
A/H 0427 70 80 90

2. HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC

Hazardous according to the criteria of Worksafe Australia

Dangerous According to the Australian Code for the Transport of Dangerous Goods

Hazard Category: VERY CORROSIVE

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOOD

RISK PHRASES

R35 Causes severe burns.

SAFETY PHRASES

S1/2 Keep locked up and out of reach of children.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S37/39 Wear suitable gloves and eye/face protection.

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

Poison Schedule: S6

Warning Statement:

Corrosive

May produce severe burns

Attacks skin & eyes

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3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
SODIUM HYDROXIDE	30 to 60%	1310-73-2
SODIUM THIOSULFATE	1 to 10%	7772-98-7
SODIUM GLUCONATE	1 to 30%	527-07-1

All other ingredients not hazardous according to EU Criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, DO NOT induce vomiting. If victim is conscious give water to drink. Immediately transport to hospital or doctor.

Eye:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open.

Immediately transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap.

Immediately transport to hospital or doctor.

Inhaled:

Remove victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Administer oxygen if breathing is difficult.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Due to the potential for esophageal or gastrointestinal tract burns following ingestion, emesis should not be induced and gastric lavage done only with caution. Immediate dilution with water or milk might be beneficial.

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 0800 764 766

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to cool fire-exposed surfaces and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area.

Flammability

Heat or damage to containers may release corrosive or toxic fumes.

HAZCHEM CODE: 2X

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6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION:

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS.

SPILL OR LEAK PROCEDURE:

Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour.

SMALL SPILLS:

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal.

LARGE SPILLS:

Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

7. HANDLING AND STORAGE

Avoid prolonged breathing of vapours and skin or eye contact. Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents and strong acids. Keep containers tightly closed, when not using the product. Store in original packages as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) to the following components of the product:

SODIUM HYDROXIDE

(Worksafe Australia)

[TWA]2 mg/m³

[STEL]Peak limitation

References: H

(ACGIH)

[STEL]2 (Ceiling)

SODIUM THIOSULFATE

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

Engineering Controls

Corrosive liquid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

Personal Protection Equipment

CLOTHING: Neoprene or nitrile apron

GLOVES: Neoprene or nitrile.

EYES: Chemical goggles or faceshield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a half-face organic vapour, P1 (dust/mist) respirator with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear and colourless to yellowish liquid
Boiling Point:	Not established
Vapour Pressure:	Not established
Specific Gravity:	1.273
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Solubility in Water:	Soluble

Other Properties

No other data available.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits choking and corrosive fumes when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Strong alkalis and oxidizing agents.

CONDITIONS TO AVOID:

Incompatibles.

11. TOXICOLOGICAL INFORMATION

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

ACUTE HEALTH EFFECTS

Swallowed:

Will cause severe burns to the mouth, mucous membranes, throat, oesophagus and stomach with effects including: Spontaneous vomiting with diarrhoea and possible bloody stools. Small quantities, approximately 20-50 ml, ingested (swallowed) will cause death.

Eye:

Will cause severe burns to the eyes with effects including: Pain, tearing, corneal opacity and blindness. If prompt action is not taken, permanent eye damage will occur.

Skin:

Will cause severe burns to the skin, with effects including; Redness, blistering, localised pain, dermatitis and deep burns.

Inhaled:

Mists or vapours will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, tightening of the chest, chest pains and possible pulmonary oedema.

Chronic:

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

Additional information for Chronic

According to OECD Guideline for the Testing of Chemicals (OECD 405) for eye corrosion and

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OECD Guideline for the Testing of Chemicals (OECD 404) for skin corrosion, both test procedures have been utilised to determine that sodium hydroxide is a confirmed corrosive substance.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No Data available

Mobility:

No Data available

Persistence / Degradability:

No Data available

Chemical Fate Information:

No Data available

This substance may cause long term adverse effects in the aquatic environment.

This substance may cause long term adverse effects in the environment

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise toxic and/or corrosive nature if applicable. Normally suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

Road Transport

UN Number: 3266

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Dangerous Goods Class: 8

Subsidiary risk:

Packing Group: II

Label: C+

Air Transport

UN Number: 3266

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Dangerous Goods Class: 8

Subsidiary risk:

Packing Group: II

Label: C+

Sea Transport

UN Number: 3266

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Dangerous Goods Class: 8

Subsidiary risk:

Packing Group: II

Label: C+

HAZCHEM CODE: 2X

Classified as a CLASS 8 (CORROSIVE) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 6th Edition.

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1

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- Class 4.3
- Class 5
- Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7

and are incompatible with food and food packaging in any quantity.

Emergency information(Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)

For TOXIC AND/OR CORROSIVE Guide No: 37

15. REGULATORY INFORMATION

Poison Schedule: S6

This material is a Scheduled **S6** Poison and must be stored, handled and used according to the appropriate regulations.

EPG: 37

Inventory Status:

Inventory Status

Australia (AICS)	Y
United States (TSCA)	Y
Canada (DSL)	Y
Europe (EINECS/ELINCS)	Y
Japan (MITI)	Y
South Korea (KECL)	Y

Y = all ingredients are on the inventory.

16. OTHER INFORMATION

Date of Preparation: MARCH 2015

Review date: Not applicable

Supersedes: Not applicable

Reasons for Update:

Not applicable

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]

AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EU - European Union

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

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Removal of the heading of *Poison Schedule [Aust]*, in section 3 and 15 of this Material Safety Data Sheet (MSDS) makes this a valid health and safety document in other international jurisdictions/countries. For full compliance please contact your Federal, State or Local regulators for further information.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

END OF MSDS