

SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ALUMINIUM ETCH LA116

Synonyms: Acidic Aluminium Etch

Use: Acidic Detergent used for brightening and etching aluminium surfaces.

Supplier: Advance Chemicals

ABN: 61 005 625 025

Street Address: 4 – 8 Malton Court Altona, 3018

Telephone Number: (03) 9398 4444

Facsimile: (03) 9398 5278

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
0425 800 022 (After Hours)

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Classification of the substance or mixture:

Skin Corrosion – Sub - category 1A

Acute Toxicity (INHALATION) – Category 2

Acute Toxicity (DERMAL) – category 1

Acute Toxicity (ORAL) – category 2

SIGNAL WORD: DANGER



Hazard Statement(s):

H314 – Causes severe skin burns and eye damage.

H330 – Fatal if inhaled

H310 – Fatal in contact with skin

H300 – Fatal if swallowed

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Precautionary Statement(s):

Prevention:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P104 Read Safety Data Sheet before use
- P260 – Do not breathe mist/vapour/spray
- P262 – Do not get in eyes, on skin or on clothing
- P264 – Wash hands and any exposed skin thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P271 – Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves/eye protection/ face protection.
- P284 – Wear respiratory protection.

Response:

- P301 + P330 +P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with plenty of soap and water/shower.
- P363 – Wash contaminated clothing before re-use
- P321 – Specific treatment (see First Aid Measures on Safety Data Sheet)
- P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 – Call a POISON CENTRE or doctor/physician if you feel unwell
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

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

Disposal:

- P501: Dispose of contents/container in accordance with local waste management authority.

Poison Schedule (Australia): 7

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	
Sulphuric acid	7664-93-9	Less than 10 %	H314
Hydrofluoric Acid	7664-39-3	Less than 7%	H330; H310; H300; H314
Detergent and foaming agents	-	Less than 10%	
Wetting Agents	-	Less than 10%	
Inhibitor	-	Less than 10%	
Water	7732-18-5	Balance.	

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4. FIRST AID MEASURES

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. SEEK MEDICAL ADVICE.

Skin Contact: If skin contact occurs, remove contaminated clothing and flush skin under running water for a short period (to remove the acid) followed **immediately** with the application of calcium gluconate gel to affected skin (First aid personnel should be wearing gloves when applying gel to prevent possible contact with the acid) SEEK MEDICAL ADVICE AS SOON AS POSSIBLE.

Eye Contact: 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 or for at least 15 minutes.

Ingestion: Wash out mouth with water and give large quantities of water containing 6 tablets of effervescent calcium gluconate. If this is not available give milk. Do NOT induce vomiting. Give plenty water. Repeat if vomiting occurs. If patient is not conscious do NOT give anything by mouth. Seek medical attention.

Notes to Doctor: The damage caused by exposure to this product is far more extensive than that caused by other acids. Failure to commence the correct medical treatment promptly may be fatal. Intensive care unit facilities are likely to be needed. Pain not relieved by use of gel is best managed by intra-arterial infusion of calcium gluconate solution in a unit that is experienced in this technique. Further information about the treatment of hydrofluoric acid burns can be obtained from the National Poisons Centre on 13 11 26.

5. FIRE FIGHTING MEASURES

Specific Hazards: Non flammable or combustible. If involved in fire will emit toxic fumes. Heat can cause expansion which can lead to rupture of containers.

Fire- fighting advice: Wear full protective clothing with breathing apparatus and gloves if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media: Use water fog, foam or dry agent.

Hazchem Code: 2XE

Flammability: Non flammable

6. ACCIDENTAL RELEASE MEASURES

Evacuate all unnecessary personnel. Wear protective clothing to minimise skin and eye exposure. If possible contain the spill. Place inert absorbent material onto spillage. Mop up material and place into the same container. If spillage enters the waterways contact the Environmental Protection Authority, or your Waste Management Authority.

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7. HANDLING AND STORAGE

Handling advice: Open container cautiously, especially in hot weather. Avoid contact with the skin and eyes. Keep out of mouth. Wear gloves and an eye shield. Do not mix with substances that contain chlorine.

Storage advice: Store in a cool well ventilated place out of direct sunlight. Transport and store upright with vent at top. Keep container closed at all times. Store away from dangerous when wet substances (Class 4.3), oxidising substances (Class 5), cyanides (Class 6), alkalies, foodstuffs or foodstuff empties.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Hydrofluoric Acid	3	2.6	peak limitation	
Sulphuric Acid	-	1	-	3

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Wash hands before eating, smoking or using the toilet.

Personal Protection Equipment: Wear protective clothing and faceshield. Wear elbow length impervious gloves (EG:Barrier laminate film gloves), splash apron and rubber boots. Wash thoroughly, immediately after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to pale yellow clear liquid with pungent odour

Boiling Point: > 100°C

Melting Point: < 0°C

Flash Point: Non flammable

Vapour Pressure: 17 mm Hg @ 20°C

Vapour Density (Air = 1): 0.6

Flammability Limits: Non flammable

Specific Gravity: 1.1

pH (concentrate): < 1

Solubility in water: Soluble

Corrosiveness: Corrosive to human tissue and most metals.

10. STABILITY AND REACTIVITY

Stability: Stable when stored in sealed container at room temperature.

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11. TOXICOLOGICAL INFORMATION

Acute Health Effects:

Ingested: Extremely corrosive. Causes burns to mouth, throat and gastro-intestinal tract.

Eye: Contact with eyes, even for short periods, may result in permanent or prolonged visual effects or destruction of the eyes.

Skin: Highly corrosive. Causes burns to the skin. Burns may not be immediately visible or painful. Healing of affected areas may be slow.

Inhaled: Strong irritant. Vapour is irritant to respiratory tract and mucous membranes.

Chronic: Prolonged contact with dilute substance may cause skin irritation. Gloves should be used at all times and wash thoroughly, immediately after use. Chronic exposure may result in dental discolouration and erosion and ulceration of the nose and mouth. Use only in well ventilated areas.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all federal, E.P.A, state and local regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

UN Number: 2922

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S

Dangerous Goods Class: 8

Subsidiary risk: 6.1

Packing Group: II

Hazchem Code: 2XE



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Road and Rail Transport: Classified as Class 8 (Corrosive Liquid) Dangerous substance for the purpose of transport by road and rail.



15. REGULATORY INFORMATION

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Poisons Schedule: 7

16. OTHER INFORMATION

This S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS can not anticipate or control the conditions under which this information can be used, each user should review this information in the specific context of the intended application.

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