

SAFETY DATA SHEET

ALUKLEEN: ALUMINIUM & STAINLESS STEEL CLEANER

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name ALUKLEEN
Product Code 210
Product Use Aluminium and Stainless Steel cleaner and brightener
Company Name Byre Chemicals
Address 3/43 Byre Avenue
 Somerton Park SA 5044
Telephone 08 8350 9228
Fax 08 8350 9334
Emergency phone no. 0412 426 697
Email info@byrechemicals.com.au

2. HAZARDS IDENTIFICATION

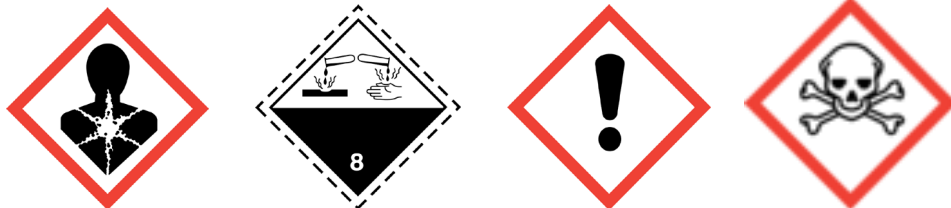
GHS Classification H300 Fatal if swallowed Category 1
 H314 Causes severe burns and eye damage Category 1A
 H335 May cause respiratory irritation Category 3
 H373 May cause damage to organs through prolonged or repeated exposure
 Category 2
 H413 May cause long lasting harmful effects to aquatic life Category 4

Signal Word DANGER

Hazard Statement Harmful if swallowed
 Causes severe burns and eye damage

Precautionary Statement
 Avoid contact with skin and eyes
 Wear eye protection and rubber gloves
 Avoid inhaling mists
 If swallowed DO NOT induce vomiting. Give water or milk. Seek immediate medical help.
 Splashes on skin to be washed off immediately
 If splashed into eyes, remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.
 Keep containers tightly closed and store in a lock-up facility.

Pictograms



3. COMPOSITION /INFORMATION ON INGREDIENTS

INGREDIENTS	CAS.NO.	PROPORTION
Phosphoric acid	7664-38-2	10 - 20 %
Hydrofluoric acid	7664-39-3	10 - 20 %
Non Hazardous Ingredients		Less than 1 %
Water		Balance

BYRE CHEMICALS

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4. FIRST-AID MEASURES

INHALATION	<i>Toxic by inhalation – may be fatal. Remove casualty from contaminated area</i>
INGESTION	<i>If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.</i>
SKIN	<i>If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.</i>
EYE	<i>If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention</i>
FIRST AID	<i>Eye wash. Safety shower , hand wash basin</i>
ADVICE TO DOCTOR	<i>Immediate specific treatment is necessary in case of poisoning. Use antidote for HF poisoning</i>

5. FIREFIGHTING MEASURES

Extinguishing Media	<i>Carbon dioxide, foam.</i>
Hazards from Combustion	<i>Material won't burn but may emit toxic vapours Contact with some metals including aluminium and zinc will liberate flammable hydrogen gas</i>
Precaution for Firefighter	<i>Wear full chemical suit and self contained breathing apparatus. Prevent run off from entering drains and waterways.</i>
HAZCHEM CODE	<i>2W</i>

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

*Evacuate all unauthorised personnel. Do not breathe fumes or handle damaged containers
Spills are slippery .For small spills hose down area. For large spills absorb onto an inert material such as dirt or sand. The collected material should then be transferred into suitable containers , labelled and disposed of in an appropriate way.
Dispose of waste according to applicable local and national regulations*

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

*Wear appropriate protective clothing. Use canister respirator approved for use with Hydrofluoric acid
Avoid inhalation of vapours and mists and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use.
Prevent the build up of mists and vapours in the work atmosphere. Do not use near ignition sources, cut, heat containers as they may produce hazardous fumes. Maintain high standards of personal hygiene ie washing hands prior to eating, drinking, smoking or using toilet.*

CONDITIONS FOR SAFE STORAGE

Corrosive liquid . Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents , strong acids, peroxides, foodstuffs and clothing. Large quantities should be stored in a bunded dangerous goods store. Prevent contact with aluminium, tin, zinc or galvanised iron .Store in original containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	<i>Hydrofluoric acid TWA 8 hours 3ppm STEL 10 mins 6 ppm Phosphoric Acid TWA 8 hours 1 mgm/m³ 8 hours.</i>
Engineering Controls	<i>This substance is hazardous. Use in a well ventilated area</i>
Eye Protection	<i>Safety glasses with side shields should be used.</i>
Hand Protection	<i>Wear gloves of impervious material such as neoprene, or nitrile rubber.</i>
Hygiene Measures	<i>Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.</i>
Skin & Body Protection	<i>Wear rubber apron</i>

ALUKLEEN : ALUMINIUM AND STAINLESS STEEL CLEANER**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear pink mobile liquid
Odour	Acrid
pH	Above 1.1
Boiling Point	Above 100C
Vapour Pressure	Not Applicable
Flash Point	None
Specific Gravity	1.22
Solubility in Water	Miscible in all proportions.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to avoid	Heat , most metals and alkalis
Incompatible materials	Alkalis and metals. Reacts with metals to form hydrogen gas. Violent reaction with alkalis
Hazardous decomposition	Thermal decomposition may result in release of toxic fumes of hydrofluoric acid
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity Ingestion	Oral LD50 (Rat) 0.07 mgm/lt (1 hour) Hydrofluoric acid Corrosive. Harmful if swallowed. Will cause burns to mouth and throat, nausea, vomiting, abdominal pain, diarrhoea and possible collapse Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring
Eyes	Corrosive. Causes severe burns which can result in permanent injury or blindness
Skin	Causes severe irritation and if untreated burns. Long term exposure can cause accumulation of fluoride in the bones (fluorosis)
Carcinogenic Chronic Effects	No evidence of carcinogenic properties Repeated or prolonged skin contact may cause chronic dermatitis. Prolonged exposure to vapours may cause respiratory difficulties and pulmonary oedema

12. ECOLOGICAL INFORMATION

Ecotoxicity	May cause long lasting harmful effects to aquatic life
Persistence/Degradability	No data available
Mobility	Soluble in water
Bioaccumulative Potential	No data available
Environmental	Do not discharge into drains, sewers, waterways. Degrades rapidly in soil and water.

13. DISPOSAL CONSIDERATIONS

Spills & Disposal	Disposal of small spillages only. For large spillages liquids should be contained using sand or earth and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and for flammable materials, shut off all possible sources of ignition.
Disposal	Refer to Land Waste Management Authority in your State

ALUKLEEN : ALUMINIUM & STAINLESS STEEL CLEANER**14. TRANSPORT INFORMATION**

<i>Transport Information</i>	<i>This material is classified as Dangerous Goods Class 8 Class 8 goods are incompatible with the following Class 1 Explosives Class 5.1 Oxidising substances Class 5.2 Organic peroxides</i>
<i>Proper Shipping Name</i>	<i>Corrosive Liquid Acidic Inorganic</i>
<i>UN.NO.</i>	<i>3264</i>
<i>Packaging Group</i>	<i>11</i>
<i>Hazchem Code</i>	<i>2X</i>
<i>DG Class</i>	<i>8</i>

15. REGULATORY INFORMATION

<i>Regulatory Information</i>	<i>Classified as hazardous according to criteria of NOHSC Poisons Schedule S6</i>
<i>Hazard Category</i>	<i>Corrosive, irritant to skin</i>
<i>Risk Statement</i>	<i>Causes severe burns.</i>
<i>Safety Statement</i>	<i>Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.</i>

16. OTHER INFORMATION

<i>Preparer Signature</i>	<i>Technical Director</i>
<i>Contact</i>	<i>Telephone: 08 8350 9228 24 hour emergency number 0412 426 697</i>

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