



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND THE COMPANY:

Product Name: **Fortron ALUMINIUM CLEANER**

Other Names: **Corrosive Liquid, Toxic N.O.S.**
Code: **FIAC25 – 25 litre container**
FIAC200 – 200 litre Drum

Manufacturing Division: Fortron Automotive Treatments Pty Ltd
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2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

Hazard Category: Harmful

R-phrase(s): R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed
R36: Irritating to eyes

S-phrase(s): S1/2: Keep locked up and out of the reach of children
S7/9: Keep container tightly closed and in a well ventilated place.
S26: In case of contact with eyes, rinse immediately with plenty of
Water and seek medical attention.
S36/3/39: Wear suitable protective equipment; gloves and eye/face
Protection.
S45: In case of accident or if unwell, seek medical advise
Immediately. (If label is available show whenever possible)

Poison Schedule (AUST) Toxic Substance (NZ): S6



3. COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion (% weight per weight)</u>
Hydrofluoric Acid	7664-39-3	1%
Phosphoric Acid	7664-38-2	8.5%
Nitric Acid	7697-37-2	3%

Other ingredients determined to be non-hazardous

Hazard Classification:	Dangerous Goods, Hazardous - Harmful
Dangerous Goods Class:	8
Subsidiary Risk:	6.1 (a)
Hazchem Code:	2X
Poisons Schedule:	S6

4. FIRST AID MEASURES

Swallowed: **DO NOT INDUCE VOMITING.** Rinse or wash out mouth with plenty of water after which, if victim is conscious, induces copious drinking of water. Seek medical attention.

If poisoning occurs contact a doctor or Poisons Information Centre.
Phone : 131126 Australia ; Phone : 03 4747 000 New Zealand

Eye: If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding the eyelid(s) open. Take care not to rinse contaminated water into the non-effected eye. Seek medical attention.

Skin: Remove contaminated shoes and clothing and launder before wearing again. Flush affected areas with plenty of water. Immediately apply calcium gluconate gel into affected skin areas. Seek medical advice immediately.

Inhaled: Remove the source of contamination or move the victim to fresh air. If patient is not breathing ensure a clear airway and apply artificial resuscitation, without mouth to mouth contact. If breathing is difficult give oxygen. Seek medical advice immediately.

First Aid Facilities: Calcium gluconate gel and safety shower.

Advice to Doctor: Treat symptomatically. Can cause corneal burns.

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5. FIRE-FIGHTING MEASURES

Unusual or Explosive Hazards: Non flammable but explosive concentrations of flammable hydrogen gas can be formed inside metal containers. Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure. Consider evacuation.

Personal Protection: Respirator Type (AS 1716)
For concentrations of hydrogen fluoride up to 30ppm, wear a respirator fitted with suitable cartridges. Sundstrom gas filters 219/241 are suitable cartridges for up to 30 ppm hydrogen fluoride. Above 30ppm hydrogen fluoride wear self-contained breathing apparatus.

Skin Protection
Wear full PVC clothing, including boots and gloves.

Eye Protection
Use chemical safety goggles and a face shield.

Fire/Explosion Hazard: Extinguishing Media:
Use water spray to keep containers cool.

Flammability: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Procedures in case of Breakage or Leakage:
Stop the source of the leak or release and contain spill if possible. Ventilate area. Avoid fumes. Use respirator and protective clothing as discussed in this MSDS. Cover spill with lime and absorb with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a labelled disposable container. Prevent contamination of ground water or surface water.

Place contaminated materials in labelled disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.



7. HANDLING AND STORAGE

Storage and Transport: As for Class 8 subsection 6.1 (a) goods. Store away from foodstuffs, strong acids and oxidising agents, store in a cool area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: None established for Aluminium Cleaner.

Fluoride (as F) 8 hr TWA = 2.5mg/m³
Nitric Acid TWA = 2ppm (5 mg/m³)
STEL = 4ppm (10mg/m³)

Engineering Standards: Ensure adequate ventilation.
Do not use in confined areas without self-contained breathing apparatus.

Personal Protection: Respirator Type (AS 1716)
For concentrations of hydrogen fluoride up to 30ppm, wear a respirator fitted with suitable cartridges. Sundstrom gas filters 219/241 are suitable cartridges for up to 30 ppm hydrogen fluoride. Above 30ppm hydrogen fluoride wear self-contained breathing apparatus.

Skin Protection
Wear full PVC clothing, including boots and gloves.

Eye Protection
Use chemical safety goggles and a face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to opaque amber viscous liquid with pungent odour.
pH: 1.0
Boiling Point/Melting Point: Not determined
Vapour Pressure: Not determined
Specific Gravity: 1.075
Flashpoint: Not applicable
Flammability Limits: LEL None Allocated
UEL None Allocated
Solubility in Water: 100%
% Volatile by Volume: 82
Autoignition Temp ©: Not applicable



10. STABILITY AND REACTIVITY

Stability:	Fortron Aluminium Cleaner is stable under normal ambient conditions of temperature and pressure.
Hazardous Polymerisation:	Will not occur
Compatibility:	Incompatible with acids, alkalis, oxidizing agents and glass

11. TOXICOLOGICAL INFORMATION

HEALTH EFFECT - ACUTE

Swallowed:	Corrosive to tissue and mucous membranes. Severe burning and/or perforation of the digestive system which may lead to death.
Eye:	Extreme irritant and corrosive to eyes. May cause blindness.
Skin:	Produces skin burns, which are slow in healing and may not be detected for several hours.
Inhaled:	Inhalation of vapour may cause ulcers to upper respiratory tract. Concentrations of hydrofluoric acid of 50-250ppm are dangerous even for brief exposures.
Chronic:	Most health hazards are related to acute effects. Fluoride tends to accumulate in bones and excessive amounts will produce weakening of bone structure. There may be also heart, nerve and intestinal problems.
Toxicity Data:	No data available for Fortron Aluminium Cleaner. However for major components the following information is available:

1. Hydrofluoric Acid:
Acute inhalation toxicity data – LC₅₀ RAT 5 min = 4970 ppm as F
-- LC₅₀ RAT 1 hr = 1310 ppm as F
-- LC₅₀ MONKEY 1 hr = 1774 ppm as F
2. Nitric Acid – Oral LD₅₀ = 430 mg/kg (HUMAN)
– Oral LD_{Lo} = 430 mg/kg (HUMAN)
-- Inhalation LC₅₀ = 49 mg/m³ (RAT)
3. Phosphoric Acid
Acute oral toxicity: LD₅₀ (Rat) – 3500 mg/kg (Slightly toxic) Acute dermal toxicity: LD₅₀ (Rabbit) -> 1260 mg/kg (Slightly toxic) Summary of toxicology.



12. ECOLOGICAL INFORMATION

Avoid contaminating waterways

13. DISPOSAL CONSIDERATIONS

Place contaminated materials in labelled disposable containers and dispose of in a manner consistent with applicable regulations. Contact State Land Waste Management authorities for approved disposal of this material

14. TRANSPORT INFORMATION

UN Number:	2922
Dangerous Goods Class:	8
Subsidiary Risk:	6.1
Hazchem Code:	2X
ERG:	37
Poisons Schedule:	S6
Packaging Group:	II

Proper shipping name: Corrosive liquid, Toxic N.O.S. (Contains Hydrofluoric Acid)



15. REGULATORY INFORMATION

HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

Hazard Category: Harmful

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16. OTHER INFORMATION

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Please Note:

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