



**Technical Data
Sheet For:**

**INTACHEM™
GLEAM
AL**

Description:
Aluminium Cleaner

*Important: Not to be used on
anodised aluminium*

Coverage:
3-4 m sq / lt.

INTACHEM IS THE TRADE
MARK OF F&D BULK
SERVICES LTD

**IntaChem House
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NOTTINGHAM
NG6 7BJ
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Gleam Al is a blend of acids and powerful surface active agents which have been specifically designed for the cleaning and polishing of aluminium fabrications which tend to become dull, corroded and pitted in service. Correctly used Gleam Al will not affect paintwork. It contains no abrasives.

Product Description:

A pale yellow straw coloured liquid containing a mixture of inorganic and organic acids. Although the agents present are classified as irritants, we grade this product as corrosive, for additional safety.

How to use the product:

Remove any large organic deposits first with a scraper or by pressure water jetting, before application of this chemical.

Establish the method, contact time, dilution and number of treatments by means of a test patch trial. Apply Gleam Al by brush, leave for 10-20 minutes before rinsing off. Contact times for any longer are not considered beneficial. DO NOT USE GLEAM AL ON ANODISED ALUMINIUM. Always test any surface before cleaning.

General Safety Precautions:

Containers should be stored in a safe place with caps secured and a trained responsible person detailed for security in stores, transit and on site. Spillages must be dealt with immediately. Only competent persons should handle this product.

Materials to be Avoided:

Anodised aluminium and zinc. Also Limestone and calcited stone

Protection of Operative:

Chemical protective suits are needed along with PVC gauntlet gloves, face shield, head covering also suitable footwear. Nobody should be allowed to work or pass underneath the zone being cleaned. All persons should be familiar with the required safety precautions and correct handling of the product.

First Aid:

Acid splashes on the skin, should be flushed with water. If the product comes into contact with eyes, flush with water followed by a mild eye rinse containing sodium bicarbonate. Contaminated clothing should be removed.

Ecology:

A blend of organic and inorganic acids, of surface active agents and inhibitors. When diluted the product is biodegradable.

Disposal of Containers:

When empty flush container then dispose in an approved manner.

Safety Notes:

1. Always store containers in secure conditions.
2. Keep containers closed when not in use.
3. Solubility: Totally miscible with water
4. S G: 1.035 to 1.065 at 20 degrees Celsius
5. pH Value: 1
6. Hazard classification: Labelled as corrosive for additional safety.
Contains Phosphoric Acid and 1% Hydrofluoric Acid
7. Flammability: Non Flammable
8. Fume Hazards: None
9. Other dangers: Do not mix with Algae Rem as dangerous gases will be formed
10. Handling precautions: Wear body and eye protection
11. First Aid—Skin: Wash thoroughly with clean soapy water
12. First Aid—Eyes: Wash thoroughly with clean water, if irritation persists seek medical help
13. First Aid—Internal: Wash out with plenty of water. Seek medical help.
14. Spillages: Dilute with plenty of water or cover with soil or sand and dispose of the debris in an approved place
15. Disposal: Ensure adequate dilution before discharge into drains
16. NEVER leave container full or empty where the public may come into contact with them.
17. ALWAYS fill containers with water before disposing of them.

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1. IDENTIFICATION OF SUBSTANCES, PREPARATIONS AND COMPANY:

Name of Preparation: Gleam Al
Supplier: IntaChem, 1 Irwin Drive, Nottingham NG6 7BJ

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Ingredient	CAS No	Content	Class	Risk
Hydrofluoric Acid	7664-39-3	1%	T+C	26/27/28/35
Phosphoric Acid	7664-38-2	12%	C	34
Non-ionic Surfactant	-	1-5%	Xn	22/36/38

3. HAZARDS IDENTIFICATION:

HEALTH RISK: VERY TOXIC

Very toxic by inhalation via contact with the skin or if swallowed. Causes severe burns. Skin burns caused are slow to heal and require specialist medical attention. Subcutaneous tissue can become blanched and bloodless and gangrene of the exposed area may follow. Fluorine poisoning is determined by sclerosis of the bones.

4. FIRST AID MEASURES:

GENERAL: Note: Effects may be delayed. Keep affected person under observation.

SPECIFIC FIRST AID

TREATMENTS:

Specific notes for fluoride derivatives: If calcium gluconate gel is available, rub into affected skin. Massage continuously until pain disappears. Do not use this method for treatment of eyes! If ingested give milk or calcium gluconate by mouth.

EYES:

Promptly wash with lots of water while lift eyelids. Get medical attention immediately.

SKIN:

Remove affected person from the source of contamination. Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention immediately.

INHALATION:

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person at rest. Get prompt medical attention.

INGESTION:

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Do not induce vomiting. Get medical attention immediately. Promptly let affected person drink plenty of water to dilute the swallowed chemical.

5. FIRE FIGHTING PROCEDURES:

Keep run of water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water to the side until the fire is out. Move containers from fire area if it can be done without risk. Use water spray to reduce vapours. If water pollution occurs, notify appropriate authorities immediately.

UNUSUAL FIRE & EXPLOSION HAZARDS: May develop highly toxic or corrosive fumes if heated. Toxic, irritating or flammable fumes result from reaction with water or steam. May form toxic or explosive vapours in the presence of certain metals. May ignite other combustible materials. Non flammable.

HAZARDOUS DECOMPOSITION PRODUCTS: Very corrosive gases/vapours/fume of fluorides.

6. ACCIDENTAL RELEASE MEASURES:

Stop leak if possible without risk. Do not touch spilled material! Neutralise with alkaline material (Lime, crushed limestone, sodium bicarbonate or soda ash). Flush area with water. Provide ventilation and confine spill. Do not allow run off to sewer. Clean-up personnel should use breathing and/or liquid contact protection. Inform Police or Fire Brigade is any spillage above 0.5 litre occurs.



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7. HANDLING & STORAGE:

USAGE PRECAUTIONS: Keep away from heat, sparks and open flame. Avoid spillages and skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid acids and combustible materials. Read and follow manufacturers recommendations. Wear full protective clothing for prolonged exposure and or high concentrations. Use cold only. Ensure the operators and general public do not come into contact with the product or rinse water by following procedures in BS6270.

STORAGE PRECAUTIONS: Isolate from other materials. Product may attack some plastics, rubber and coatings. Will attack glass and most ceramics. Keep in cool, dry and well ventilated storage area. Keep containers closed.

STORAGE CRITERIA: Corrosive storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ingredient	CAS No	STD	LTEXP	STEXP
Hydrofluoric Acid	7664-39-3	-	-	2.5mg/w meter
Phosphoric Acid	7664-38-2	DES	No std	2mg/m3
Non-ionic Surfactant	-	-	-	-

PROTECTIVE EQUIPMENT:

RESIRATORS: CCRSF, CCR with full piece providing protection against the specific compound. CMS, Gas mask with canister providing protection against the chemical of concern (chin style or front or back mounted). SAF, Supplied air respirator with full face piece, helmet or hood. SCEAF, Self contained breathing apparatus with full face piece.

PROTECTIVE GLOVES: Seek advice from local supervision. For exposure of 1 to 4 hours, use gloves made of rubber (natural latex), neoprene, polyethylene/ethylene vinyl alcohol (PE/EVAL).

EYE PROTECTION: Wear splash proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION: Use engineering controls to reduce air contamination to permissible level. Provide eye wash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact (impervious clothing, gloves and minimum 8 inch face shield). Wear full protective clothing, PVC overalls, face shield and rubber footwear.

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Clear liquid
Odour:	Detergent/Acidic
Specific Gravity:	1.21—0.10
Solubility in H2O:	Soluble in water

10. STABILITY & REACTIVITY:

STABILITY: Avoid heat, sparks, flames, moisture or contact with combustibles.

INCOMPATIBLE SPECIFIC CHEMICALS: Acetic acid, diarsenic trioxide, chlorosulphonic acid, 2-Aminoethanol, ethylenediamine, fluorine, 3-Propanolide, propylene oxide, sodium hydroxide, sulphuric acid, vinyl acetate.

MATERIALS TO AVOID: Bases, alkalis (inorganic). Massive solid metal, powdered metal, water, steam, water mixtures. Red sandstone, limestone, Portland stone, marble, slate or calcited materials.

HAZARDOUS DECOMPOSITION PRODUCT: Very corrosive gases/vapours/flames or fluorides.



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11. TOXICOLOGICAL INFORMATION:

HEALTH WARNINGS: Exposure: this chemical has good warning properties. Gas or vapour is toxic or extremely irritating even on brief exposure. This chemical may cause skin/eye irritation and burns (corrosive). Toxic through skin absorption (percutaneous).

MEDICAL SYMPTOMS: Extreme irritation of eyes and mucous membranes, including burning and tearing. Severe pulmonary irritation. Ingestion may cause severe abdominal pain, nausea, vomiting.

ACUTE AND CHRONIC HEALTH HAZARDS: Repeated exposure may cause chronic eye irritation. May cause temporary blindness and severe eye damage. Serious damage to lining of the nose, throat and lungs. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, de-quamation. Contact with concentrated chemical may cause severe skin damage. Swallowing, concentrated chemical may cause severe internal injury.

12. ECOLOGICAL INFORMATION:

Degradability: No information available
Acute Fish Toxicity: No information available
Environmental Hazards: No information available

13. DISPOSAL CONSIDERATIONS:

Destroy by permanganate oxidation, high-temperature incineration with scrubbing equipment or by microwave plasma treatment. Dike far ahead of spill for later disposal. Confirm disposal procedures with environmental engineer and local regulations. Wash to drains with lots of water.

14. TRANSPORT INFORMATION:

ROAD:
UN No. 2922 ADR CLASS
LABEL FOR CONVEYANCE: Poison (6), Corrosive (8)

AIR:
UN No. 2922 AIR PACK GRADE: 2

SEA:
UN No. 2922 SEA PACK GRADE: 2
IMDG Page No: 8149

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