



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	ALSHINE Aluminium Cleaner 1
MANUFACTURER	Flowcrete SA (Pty.) Ltd. 176 Voortrekker Street Jacobs 4052
TELEPHONE NUMBER	(031) 461 3411
EMERGENCY TELEPHONE NUMBER(S)	Rob Weyers (031) 461 3411
SYNONYMS	None
CHEMICAL FAMILY	Inorganic Acid
UN NUMBER	1790
DATE PREPARED	January 2012

SECTION 2 - COMPOSITION

HAZARDOUS COMPONENTS	1. < 15.00 Hydrofluoric Acid
R - PHRASES	R 35
S - PHRASES	S 26 / 36 / 37 / 45

SECTION 3 - HAZARDS IDENTIFICATION

FLAMMABILITY	4 - Minimal
HEALTH EFFECTS - EYES	Severe eye irritant Corrosive - Irreversible damage possible
HEALTH EFFECTS - SKIN	Severe skin irritant Corrosive - Can cause severe burns
HEALTH EFFECTS - INGESTION	Harmful if swallowed Corrosive and toxic - Can cause severe damage
HEALTH EFFECTS - INHALATION	Respiratory irritant

SECTION 4 - FIRST AID MEASURES

EYE CONTACT	Hold eye lids apart and immediately flush with plenty of water for at least 15 minutes. Seek medical attention immediately.
SKIN CONTACT	Rinse thoroughly with plenty of water. Remove contaminated clothing and shoes. Seek medical attention immediately.
INGESTION	Rinse mouth thoroughly with water. Do not induce vomiting. Seek medical attention immediately.
INHALATION	Move to fresh air. If breathing has stopped or is laboured, give assisted respiration. Seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE RATING	4 - Minimal
REACTIVITY	4 - Minimal

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear acid resistant clothing, boots, gloves, respirator, eye and face protection.

ENVIRONMENTAL PRECAUTIONS

Contain or dyke the entire perimeter of the contaminated area. Ensure that the spilled material does not enter any drains.

SPILL CLEAN-UP PROCEDURE

Working from the outer circumference of the contained spill area, absorb the product with sand or sawdust. Collect and place the contaminated materials in an approved disposal container. Dispose of contaminants in accordance with the Local and National By-laws. Should the spill exceed the in-house capabilities, call a spill responder immediately.

SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep in cool, dry, ventilated storage and in closed containers. Do not store in reactive metal containers. Store away from oxidising substance.

HANDLING

Avoid contact with skin and eyes. Do not ingest or inhale. When handling, do not eat, drink or smoke. Avoid using in any spray application without strict conformance to all health and safety requirements.

SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

EYE PROTECTION

Wear full face shield. Provide readily accessible eye wash stations.

SKIN PROTECTION

Wear full face shield, impervious long sleeved clothing, impervious gloves, apron and boots. Provide readily accessible safety showers.

RESPIRATORY PROTECTION

Wear half mask fitted with the appropriate cartridge. In poorly ventilated work areas, wear full air supply breathing apparatus.

INGESTION PROTECTION

Wash before eating, drinking or smoking. Observe the rules of hygiene.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Mobile liquid
COLOUR	Clear
ODOUR	Pungent
pH	Acidic - < 1
BOILING POINT	> 100 °C
MELTING POINT	No data
FLASH POINT	> 100 °C
FLAMMABILITY	4 - Minimal
VAPOUR PRESSURE	No data
SPECIFIC GRAVITY	1.00
SOLUBILITY IN WATER	Completely - 100%

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable
CONDITIONS TO AVOID	Not applicable - product is stable
INCOMPATIBLE MATERIALS	Oxidising substances Reactive metals
HAZARDOUS DECOMPOSITION PRODUCTS	None

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)	No data
ACUTE DERMAL TOXICITY (LD50, RABBIT)	No data
ACUTE INHALATION TOXICITY (LD50, RAT)	No data
EYE AND SKIN CONTACT	Severe eye and skin irritant.
CARCINOGENICITY	Not a known carcinogen

SECTION 12 - ECOLOGICAL INFORMATION

No data

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Use a reputable waste disposal contractor. Waste disposal measures must comply with all Local and National By-laws.

SECTION 14 - TRANSPORT INFORMATION

UN NUMBER

1790

IMO SHIPPING NAME

Hydrofluoric acid solution

IMO CLASS AND DANGER GROUP

Class 8, Danger Group II

IMO SUBSIDIARY RISK(S)

Toxic

SECTION 15 - REGULATORY INFORMATION

RISK (R) PHRASES

R 35 - Causes severe burns

SAFETY (S) PHRASES

S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36 / 37 - Wear suitable protective clothing, gloves and eye/face protection.

S 45 - In case of accident or if you feel unwell, seek medical advice immediately (Show label where possible).

SECTION 16 - OTHER INFORMATION

Alert workers to this hazardous potential and ensure precautions are taken. In cases of any discomfort always seek medical advice.

All information is given in good faith but without guarantee in respect of accuracy. No responsibility is accepted for error of omission or the consequences thereof.