



## SAFETY DATA SHEET

### ALI

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	ALI
PRODUCT NO.	020-14
APPLICATION	Aluminium cleaner
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#### 2 HAZARDS IDENTIFICATION

Toxic by inhalation, in contact with skin and if swallowed. Irritating to respiratory system. Causes burns.

CLASSIFICATION T;R23/24/25. C;R34. Xi;R37.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
FATTY ALCOHOL ETHOXYLATE		68439-46-3	1-5%	Xn;R22. Xi;R41.
HYDROFLUORIC ACID ...%	231-634-8	7664-39-3	5-10%	T+;R26/27/28 C;R35
PHOSPHORIC ACID ...%	231-633-2	7664-38-2	1-5%	C;R34

The Full Text for all R-Phrases are Displayed in Section 16

#### 4 FIRST-AID MEASURES

##### INHALATION

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

##### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

##### SKIN CONTACT

Remove contaminated clothing. Rinse immediately with plenty of water. Apply Calcium Gluconate Gel over the affected areas. Get medical attention immediately.

##### EYE CONTACT

Get medical attention immediately. Continue to rinse. Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Medical aid should instil several drops of sterile calcium gluconate solution.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

##### SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Use supplied air respirator if product is involved in a fire.

**ALI****SPECIFIC HAZARDS**

Asphyxiating gases/vapours/fumes of: Toxic gases/vapours/fumes of Hydrogen fluoride (HF).

**PROTECTIVE MEASURES IN FIRE**

Wear full protective clothing. Severe corrosive hazard. Wear chemical protection suits.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

For personal protection, see section 8.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge onto the ground or into water courses.

**SPILL CLEAN UP METHODS**

DO NOT TOUCH SPILLED MATERIAL! Clean-up personnel should use respiratory and/or liquid contact protection. Neutralise small amounts with sodium bicarbonate or lime and flush to sewer with large amounts of water. Large spills, dilute, then neutralise with caustic solution. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush area with plenty of water. Flush to sewer if local regulations permit.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Eye wash facilities and emergency shower must be available when handling this product. Provide good ventilation. Antidote must be found in place of work.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
HYDROFLUORIC ACID ...%	WEL	1,8 ppm	1,5 mg/m <sup>3</sup>	3 ppm	2,5 mg/m <sup>3</sup>	as F
PHOSPHORIC ACID ...%	WEL		1 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Provide eyewash, quick drench.

**ENGINEERING MEASURES**

Must not be handled in confined space without sufficient ventilation.

**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided. Wear mask supplied with: Gas cartridge (acid gases).

**HAND PROTECTION**

Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Use safety goggles and face shield in case of splash risk.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact. Wear rubber footwear. Provide eyewash station. Ensure calcium gluconate antidote gel is available.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## ALI

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Clear		
ODOUR	Acidic.		
SOLUBILITY	Soluble in water Miscible with water.		
BOILING POINT (°C)	~ 100	MELTING POINT (°C)	~ 0
RELATIVE DENSITY	~ 1.047 (20°C)	pH-VALUE, CONC. SOLUTION	1

**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under normal temperature conditions. Avoid: Contact with peroxides. Contact with alkalis.

## CONDITIONS TO AVOID

Avoid contact with: Strong alkalis. Avoid excessive heat for prolonged periods of time.

## HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Vapours/gases/fumes of: Hydrogen fluoride (HF).

**11 TOXICOLOGICAL INFORMATION**

## INHALATION

Toxic by inhalation. Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

## INGESTION

Toxic if swallowed. Swallowing concentrated chemical may cause severe internal injury. May cause burns in mucous membranes, throat, oesophagus and stomach.

## SKIN CONTACT

Toxic in contact with skin. May be absorbed through the skin. Effect may be delayed.

## EYE CONTACT

May cause chemical eye burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

## HEALTH WARNINGS

Repeated exposure to high concentrations of materials containing fluorine may increase bone density leading to Osteosclerosis.

## ROUTE OF ENTRY

Skin and/or eye contact. Inhalation. Ingestion.

## MEDICAL SYMPTOMS

Severe skin irritation. Severe pulmonary irritation. Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

## BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

## DEGRADABILITY

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## WATER HAZARD CLASSIFICATION

WGK 2

**13 DISPOSAL CONSIDERATIONS**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.

**14 TRANSPORT INFORMATION**

## ALI



UK ROAD CLASS	8		
PROPER SHIPPING NAME	HYDROFLUORIC ACID		
UN NO. ROAD	1790	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	HAZARD No. (ADR)	86
ADR LABEL NO.	8 & 6.1	HAZCHEM CODE	2W
CEFIC TEC(R) NO.	80GCT1-II+III	RID CLASS NO.	8
RID PACK GROUP	II	UN NO. SEA	1790
IMDG CLASS	8	IMDG PAGE NO.	84 (vol 2)
IMDG PACK GR.	II	EMS	F-A, S-B
MFAG	16	MARINE POLLUTANT	No.
UN NO. AIR	1790	AIR CLASS	8
AIR SUB CLASS	6.1	AIR PACK GR.	II

### 15 REGULATORY INFORMATION

#### LABELLING



Toxic



Corrosive

CONTAINS HYDROFLUORIC ACID 5.32%

#### RISK PHRASES

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R37	Irritating to respiratory system.

#### SAFETY PHRASES

S23	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S35	This material and its container must be disposed of in a safe way.

#### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

#### GUIDANCE NOTES

Workplace Exposure Limits EH40.

### 16 OTHER INFORMATION

#### GENERAL INFORMATION

Only trained personnel should use this material.

REVISION DATE 27/01/2009

## ALI

REV. NO./REPL. SDS GENERATED 5

### RISK PHRASES IN FULL

R22	Harmful if swallowed.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.