Material Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name Ali Mate

MSDS Code 008597

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Aluminium cleaner and brightener

Uses advised against This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

1.3 Details of the supplier of the safety data sheet

Supplier:

Fleming Technical Limited
Brunel Road
Croft Business Park
Bromborough CH62 3NY
www.fleming-tech.com
www.spillhound.com
Tel +44(0)151 343 1800

Contact person: Mr G. Fleming

1.4 Emergency telephone number

Emergency telephone +44(0) 151 343 1800 Mon-Fri 09.00 - 17.00. If you urgently need medical help or advice but it's not a life-threatening situation, call the 24-hour NHS 111 service to speak to an NHS adviser. Simply call 111 free from a landline or mobile.

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification

Physical hazards

Met Corr 1 - H290

Health hazards

Skin Irrit 2 - H315 H302 + H312 H302 + H312

Environmental hazards

Not classified.

2.2 Label elements

Pictogram

Signal word Warning

Hazard statements

H302 + H312: Harmful if swallowed or in contact with skin R21/22

H315 + H320: Causes skin and eye irritation R36/38

Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

IF ON SKIN: Apply calcium gluconate gel immediately and seek medical attention.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses if possible. Continue rinsing. Apply calcium gluconate drops if available.

Supplementary precautionary statements

2.3 Other hazards

This product contains no substances classified as PBT or vPvB.

3. Composition/Information on ingredients

3.2 Mixtures

Ammonium hydrogen fluoride **1-5 %**

CAS number: 1341-49-7 **EC number:** 215-676-4

Classification

Acute Tox 3 - H301	H301: Toxic if swallowed R25
Skin Corr 1B - H314	H314: Causes severe skin burns and eye damage R35

C9-C11 alcohol ethoxylate **1-5 %**

CAS number: 68439-46-3 **EC number:**

Classification

Acute Tox 4 - H302	H302: Harmful if swallowed R22
Eye Dam 1 - H318	H318: Causes serious eye damage R41

Hydrochloric Acid 28% **30-60 %**

CAS number: 7647-1-0 **EC number:** 231-595-7

Classification

Met Corr 1 - H290	H290 : May be corrosive to metals
Skin Corr 1B - H314	H314: Causes severe skin burns and eye damage R35
STOT SE 3 - H336	H336: May cause drowsiness or dizziness R67

4. First Aid Measures

4.1 Description of first aid measures

Inhalation - advice refers to inhalation of spray mist

Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water or preferably milk to drink. Get medical attention immediately.

Skin

Remove affected person from source of contamination. Remove contaminated clothing. Apply calcium gluconate gel. If symptoms persist, get medical attention.

Eyes

Remove any contact lenses and open eyelids wide apart. Continue to rinse with water for at least 15 minutes. Apply several drops of sterile calcium gluconate solution, if available. Get immediate medical attention. Show this data sheet.

4.2 Most important symptoms and effects, both acute and delayed

General Information

Effects may be delayed. Keep affected person under observation. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation - information refers to inhalation of spray mist

Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause severe discomfort if swallowed. May cause severe throat and stomach pain and/or vomiting. Ingestion of large quantities may result in unconsciousness, blindness and possibly death.

Skin

Delayed chemical burns with white and wrinkled skin, if chemical is not removed promptly by washing.

Eyes

May cause blurred vision and serious eye damage or chemical eye burns.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Specific notes for fluoride derivatives: These materials are calcium scavengers. Massage calcium gluconate gel into affected skin until pain disappears. If ingested, give milk or calcium gluconate by mouth. If in eyes, apply calcium gluconate eye drops.

5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

This product is not flammable. Fire extinguishing media should be selected according to the nature of surrounding materials.

5.2 Special hazards arising from the substance or mixture

Specific hazards

Thermal decomposition or combustion may liberate toxic gases or vapours.

Hazardous combustion products

If involved in a fire, vapours may include oxides/compounds of the following : Carbon. Hydrogen. Fluorine.

5.3 Advice for firefighters

Protective actions during firefighting

Stay up-wind to avoid breathing fumes or vapours. Keep run-off water out of sewers and watercourses. If there is risk of water pollution, notify appropriate authorities.

Special protective equipment for firefighters

Use self-contained breathing apparatus, gloves and protective goggles. Use full protective clothing appropriate for surrounding materials.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment required: respiratory protection, protective gloves, goggles, clothing and footwear. See section 8.

6.2 Environmental precautions

Do not discharge into water courses. Place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY notified to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Wear suitable protective clothing. Stop leak if possible without risk. Neutralise spilled material with soda ash (sodium carbonate) or sodium bicarbonate. 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 remaining spilled material to foul sewer if local regulations permit. For waste disposal, see section 13.

6.4 Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Read and follow manufacturer's recommendations. Observe good chemical hygiene and handling practices.

Refer to section 6.1 for personal protective equipment. Calcium gluconate gel must be available as a first aid measure.

7.2 Conditions for safe storage, including any incompatabilities

Store in tightly closed original container in a cool, dry place.

7.3 Specific end use(s)

Please see section 1.2

8. Exposure Controls/personal protection

8.1 Control parameters

Occupational exposure limits

Statutory and derived exposure data for Ammonium hydrogen fluoride

Workplace Exposure Limits (WEL)								Derived and predicted exposure parameters				
TWA - 8hr				STEL - 15 mins				DNEL - No data available			PNEC - No data available	
	ppm	2.5	mg/m3		ppm	5	mg/m3					

Statutory and derived exposure data for C9-C11 alcohol ethoxylate

Workplace Exposure Limits (WEL)								Derived and predicted exposure parameters				
TWA - 8hr				STEL - 15 mins				DNEL (mg/m3)			PNEC	
-	ppm	-	mg/m3	-	ppm	-	mg/m3				STP	1.4000 mg/l
								Inhalation	Long Term	294.0000	Fresh water	0.1038 mg/l
											Marine water	0.1038 mg/l

Statutory and derived exposure data for Hydrochloric Acid 28%

Workplace Exposure Limits (WEL)								Derived and predicted exposure parameters				
TWA - 8hr				STEL - 15 mins				DNEL (mg/m3)			PNEC	
1	ppm	2	mg/m3	5	ppm	8	mg/m3	Inhalation	Short Term	15.0000	STP	0.0360 mg/l
								Inhalation	Long Term	8.0000	Fresh water	0.0360 mg/l
											Marine water	0.0360 mg/l

8.2 Exposure controls

Protective equipment

Appropriate engineering controls

No specific ventilation requirements. If this product is used in such a way as to generate spray mist, additional ventilation may be required.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Face shield and chemical splash goggles conforming to ANSI Z87.1.

Hand protection

Protection against this substance requires special consideration.Use protective gloves, complying with an approved standard (EN374), made of the following material: PVC or Nitrile.

It should be noted that the liquid may penetrate the gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Frequent change is advisable.

Other skin and body protection

Wear appropriate protective clothing to prevent any possibility of skin contact. Provide eyewash station.

Hygiene measures

Provide eye wash station and suitable hand cleaning/hand care facilities. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

Respiratory protection

Respiratory protection may be required if the usage method generates excessive levels of mist/dust. If necessary, wear a mask fitted with a cartridge suitable for acid gases.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	
Clear Mobile Liquid	
pH (Concentrate)	**pH (10%)**
1	1
Odour	
Faint Sharp	
Decomposition temperature (°C)	
Not available	
Solubility - water	
Soluble in all proportions	
Odour threshold - lower	
Not available	
Solubility - other	
n/a	
Odour threshold - upper	
Not available	
Boiling point	
Not available	
Flash point (°C)	
Not applicable	
Freezing point	
Not available	
Auto ignition temperature (°C)	
Not available	
Relative density (20°C)	
~ 1.04	
Flammability limit - lower (%)	
Not available	
Vapour density (air = 1)	
Not available	
Flammability limit - upper (%)	
Not available	
Vapour pressure	
Not available	
Partition coefficient (N-octanol/water)	
Not available	
Viscosity	
Not Available	
Oxidising properties	
Does not meet the criteria for oxidising	
Evaporation rate (BuAc = 1)	
Not available	
Comments	
Information declared as 'Not available' or 'Not applicable' is not considered to be relevant to the implementation of the proper control measures	

9.2 Other information

VOC (grams/litre)
0 **This is a zero VOC product.**

10. Stability and reactivity

10.1 Reactivity

The following materials may react with the product: Strong reducing agents.

10.2 Chemical Stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

Reaction with alkalis will generate heat.

10.4 Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

Strong oxidisers. Alkalis (generates heat).

10.6 Hazardous decomposition products

Product does not decompose under normal conditions.

11. Toxicological Information

11.1 Information on toxicological effects

Toxicological effects

No data recorded for mixture

Acute toxicity - oral (Calculated from raw material data. This product is not tested on animals)

ATE oral (mg/kg)

1103

Skin corrosion/irritation

Human skin model test

Scientifically unjustified

Extreme pH

Based on in Vitro calculation from pH and Alkali Reserve. Irritating.

General

Prolonged and repeated exposure/ingestion of fluoride-rich products may lead to permanent health problems.

Inhalation

Spray mist will severely irritate respiratory membranes. Prolonged inhalation of spray mist may damage respiratory system.

Ingestion

Will cause severe irritation to mouth, throat and and stomach if swallowed. Ingestion of large quantities can lead to fluoride poisoning.

Skin contact

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

Eye contact

Severely irritating to eyes. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Route of entry

Inhalation (spray mist). Ingestion. Skin. Eyes.

Medical symptoms

Severe skin irritation. Severe lung irritation. Reddened/burned skin if chemical is not removed by washing. Effects may be delayed and without pain.

Medical considerations

Treatment should be as per acute fluoride poisoning. Consider calcium gluconate preparations for skin/eyes and calcium chloride solution for ingestion.

Toxicological information on ingredients

Ammonium hydrogen fluoride	LD50	oral	rat	130	mg/kg
C9-C11 alcohol ethoxylate	LD50	oral	rat	3000	mg/kg
Hydrochloric Acid 28%	LD50	oral	rat	700	mg/kg
	LD50	dermal	rabbit	>5010	mg/kg

12. Ecological Information

The product is not expected to be hazardous to the environment.

The product components are not classified as environmentally hazardous. Large spills may have hazardous effects on the environment.
The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.
The product does not contain organically bound halogen.
The product does not contain organic complexing agents with a DOC level of degradation of < 80% after 28 days.

12.1 Toxicity

Acute aquatic toxicity

Details shown in section 08, when applicable.

12.2 Persistence and degradability

The surfactants contained in this product 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.

The product is biodegradable but it must not be discharged into drains without permission from the relevant authorities.

12.3 Bioaccumlative potential

This product is not expected to bioaccumulate

12.4 Mobility in soil

The product is soluble in water.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

Not Determined

13. Disposal Considerations

13.1 Waste treatment methods

General Information

When handling waste, the safety precautions applying to handling of the product should be considered. The packaging must be empty (drop-free when inverted).

Disposal methods

Packaging should be reused, recycled or laundered via a licensed operator wherever possible.

Avoid the spillage or runoff entering watercourses. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Discharge of small quantities to the sewer with plenty of water may be permitted.
The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor.

14. Transport Information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1 UN Number

ADR/RID :

IMDG :

ICAO :

14.2 UN proper shipping name

ADR/RID :

IMDG :

ICAO :

ADN :

14.3 Transport hazard class(es)

ADR/RID :

IMDG :

ICAO :

Transport labels

None required.

14.4 Packing group

ADR/RID :

IMDG :

ICAO :

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant

No

14.6 Special precautions for user

IMDG Code segregation group Not applicable.

EmS

Emergency Action Code

Hazard Identification Number (ADR/RID)

Tunnel restriction code

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance Notes

Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

Health and environmental listings

Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).

Water hazard classification

WGK 1

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

16. Other Information

General Information

For use by trained personnel only. Read the product label and follow instructions carefully. This product should only be used on the surfaces described on the product label. This product has been manufactured under an ISO 9001 Quality System.

Do not use or rinse this product in such a way as to generate excessive product mist, as this can cause unnecessary inhalation hazard.

When using this product, ensure that other unprotected personnel, or members of the public, are not exposed. Where necessary, unprotected persons should be excluded from any area where the product is being used.

All users should have access to, and be familiar with, the contents of this data sheet.

If this product is decanted into other containers, ensure that they are suitable, clean and correctly labelled.

Product spills may be very slippery - ensure that spillages are cleaned up immediately and that adequate warnings are given to other personnel.

This product should NOT be used in the home.

This product should never be mixed with any other.

Issued by

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SDS status Approved.

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