

MATERIAL SAFETY DATA SHEET
HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

COMPANY DETAILS

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Company Fleetwash Industrial Systems Pty Ltd
Address Unit 4 10 Tollis Place Seven Hills NSW 2147
Telephone (02) 9620 9629
Fax (02) 9624 8763

IDENTIFICATION

Product Name Aluminium Brightener Emulsion
Other Names Proper Shipping Name is CORROSIVE LIQUID N.O.S.
UN No 1760
Hazchem Code 2X
Dangerous Goods Class 8 Corrosive Substances
Sub Risk Class None Allocated
Packaging Group 111
Most EPGs may now be substituted by the initial Emergency Response Guide, available from Standards Australia.
Poison Schedule S6
Chemical Family Blend of acidic ingredients and surfactant (see below)
Uses Aluminium Brightener

Physical Appearance & Properties

Appearance & Odour Milky white liquid. Sharp but mild odour
Melting/ softening point Approximately 0 C
Boiling point & vapour pressure Approximately 100 C at 100 Pa
Volatile materials Water component
Flashpoint Does not burn
Specific gravity No Data
Corrosiveness Corrosive to human tissues and to many metals

Ingredients

Work safe Exposure Limits

Chemical Entity	CAS NO	Proportion %	TWA mg/m3	STEL g/m3
Hydrogen fluoride	7664-39-3	3.5	2.6	Peak
Sulphuric acid	7664-93-9	3-1	1	3
Nitric acid	7697-37-2	3-6	5.2	10
Other non hazardous Ingredients	secret	10-20	not set	not set
Water	7732-18-5	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

HEALTH HAZARD INFORMATION

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as

Carcinogenic in Work safes document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment (May 1995)

Acute Effects:

Swallowed: Data suggests that this product is toxic if swallowed. Ingestion of small quantities may cause harm and larger quantities may lead to death. This Product is also corrosive to the gastrointestinal tract. Will cause burning to mouth and throat, possible irreversible problems, even death unless treated promptly.

Eye; This product is corrosive to the eyes. It will quickly cause intense discomfort such as severe pain, copious watering and redness of the eyes. Unless quickly treated, corrosive effects leading to permanent corneal damage, even blindness will occur.

Skin: Data suggests that this product is likely to be absorbed through the skin and be toxic by skin absorption. Major skin exposure may lead to serious health problems and even death if not treated promptly. This product is also corrosive to skin. It will cause effects such as severe itchiness, blistering and skin reddening and death of skin tissues. Exposure may lead to permanent damage including scarring.

Inhalation: Data suggests that this product is toxic if inhaled. Brief or minor exposure may lead to health problems. Extended or major exposure may lead to severe consequences including death.

First Aid:

Obtain a supply of calcium gluconate gel and leave it in a nearby unlocked medicine cabinet. Eyebaths or eyewash stations and safety deluge showers should be provided where this product is being used.

If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed do NOT induce vomiting. Give a glass of water. Seek immediate medical attention.

If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

Eyes: If this product comes into contact with eyes, hold open and wash with running water. Do not try to remove contact lenses unless trained. Seek immediate medical attention.

Skin: If product gets on skin, immediately remove contaminated clothing and wash thoroughly with soap and running water for at least 15 minutes. Seek medical attention. If product gets on skin, immediately remove contaminated clothing and wash skin with soap and running water. Immediately apply calcium gluconate gel to affected skin. Seek immediate medical attention. If safety shower is available use promptly. Because of the toxicity of this product, speed may save a life. If you have the time and resources see if you can neutralise the corrosive medium especially if on face, in eyes or in/on other sensitive areas.

Inhalation: Remove from contaminated area. Apply artificial respiration if not breathing.

Advice to Doctor: Treat symptomatically. Note the nature of this product.

PRECAUTIONS FOR USE

Risk Phrases are: R34, R41, R23/24/25. Causes burns. Risk of serious damage to eyes. Toxic by inhalation, in contact with skin, and if swallowed.

Exposure Standards:

A time weighed average (TWA) has been established for Hydrogen fluoride, present in significant quantities in this product. This value is 2.6mg/m³. The corresponding STEL level is "Peak". The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times a day. There should be a t least 60 minutes between successive exposure at the STEL. If exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet, The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation capturing substances at the source or other methods. If you believe air borne concentrations of mists, dust or vapours are high you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Respiratory Protection: Because of the danger of this product to the respiratory system it should only be used when the user is equipped with full respiratory equipment unless used in a fume cupboard or other positively ventilated area designed for the protection of users. For help in selecting suitable equipment consult AS/NZS 1715.

Protective Gloves: Impermeable protective gloves must be worn when you are using this product since absorption through the skin is likely to lead to serious harm. All skin areas should be covered. Failure to do so will lead to burns to the skin and likely scarring. All skin areas must be covered. Glove selection can be made on the basis of the following resistance for Inorganic acids based products. Neoprene: good, Rubber: good, Nitrile: good, Butyl: good. For help in selecting suitable equipment consult AS 2161.

Eye Protection: Protective eyewear must be worn when using this product. Coverage should extend to all facial areas. Eye contact will prove at best painful and will probably cause irreversible damage if contact is other than brief. Consult AS 1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

Clothing: Clean impermeable overalls or protective clothing should be worn, preferably with an apron. If contaminated laundry should be advised of the nature of the contamination or preferably clothing should be destroyed. Consult AS 2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots in Industrial situations is advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SAFE HANDLING INFORMATION

Safety Phrases are: S20, S26, S28, S36, S38, S36/39. When using do not eat or drink. In case of contact with eyes rinse immediately with plenty of water and consult a Doctor or Poisons Information Centre. After contact with skin wash immediately with plenty of soap and water. Wear suitable protective clothing in case of insufficient ventilation. Wear suitable protective clothing and eye/face protection.

Storage & Transport

This product is classes as UN 1760 Dangerous Goods Class 8 Corrosive Substances. Proper shipping name is CORROSIVE LIQUID N.O.S. Class 8 Corrosive Substances shall not be loaded in the same vehicle or packed in the same freight container as Classes 1 (Explosives) 4.3 (Dangerous when wet Substances) 5.1 (Oxidising Agents) 5.2 (Organic Peroxides) 6 (Toxic Substances where the Toxic Substances are cyanides and the Corrosives are acids) 7 (Radioactive Substances) Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases) 2.2 (Non Flammable, Non Toxic Gases) 2.3 (Poisonous Gases) 3 (Flammable Liquids) 4.1 (Flammable Solids) 4.2 (Spontaneously Combustible Substances) 6 (Toxic Substances except where the Toxic Substances are cyanides and the Corrosives are acids) and 9 (Miscellaneous Dangerous Goods) This product is a S6 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under “Materials to avoid” below.

Spills & Disposals

In the event of a major spill prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Wear full protective chemically resistant clothing including face mask, face shield, gauntlets and self contained breathing apparatus. See above under Personal Protection regarding Australia Standards relating to personal protective equipment. Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Contaminated areas may be neutralised by washing with weak or dilute alkali. This material may be suitable for approval landfill. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Fire & Explosion Hazard

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: Does not burn

Flammability limits: Not applicable. This product does not burn

Extinguishing Media: This product does not burn. Use extinguishing media suited to the materials that are burning. Water fog or fine spray is the preferred medium for large fires.

Special Fire Fighting procedures: Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product wear safety boots, non flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

Unusual Fire & Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation Products: Carbon dioxide and if combustion is incomplete carbon monoxide and smoke. Oxides of sulphur. Water.

Materials to avoid: Bases.

OTHER INFORMATION

This MSDS is prepared in accord with the Work safe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets 1994

National Poisons Information Centre: Dial 13 1126 (from anywhere in Australia)

The information contained herein based on data available Fleetwash Industrial Systems Pty Ltd. from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate. Due care is taken to make sure that the use or disposal of this product and container are in compliance with appropriate Federal, State and Local Government regulations.