



# FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

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## MATERIAL SAFETY DATA SHEET

### IDENTIFICATION

**Product:** MISTIC ACID SURFACE CLEANER

**Recommended Uses:** Uses for MISTIC ACID include the following:  
Etching of concrete surfaces to give a mechanical key prior to application of surface coatings, or to make surface non-slip.  
Removal of cement splashes from decorative or exposed aggregate panels and other surfaces.  
Removal of iron oxide (rust) from steel.

### Company Details (NZ Manufacturer)

**Company:** Fraser Brown & Stratmore Limited  
**Address:** 185 Rata Street, Naenae, Lower Hutt  
**Contact Details:** Ph: 0800 835 699, Fax: 0800 342 737  
**Emergency Contact:** Poisons & Hazardous Chemicals: 0800 POISON / 0800 764766

### HAZARDS IDENTIFICATION

The primary exposure route for this product is through skin or eye contact.

#### Hazard information:



Toxic. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, chemical burns to the gastrointestinal tract.

Severe eye irritant. Corrosive to eyes.

Contact with skin will result in severe irritation or cause skin burns.

Breathing in mist will produce respiratory irritation.

Harmful to terrestrial vertebrates.

### COMPOSITION

Name	CAS Number	Content
Hydrochloric Acid	7647-01-0	<25%
Non-hazardous ingredients	—	To 100%

### FIRST AID MEASURES

#### FIRST AID:

**INHALATION** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek medical attention.

**SWALLOWED** Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs, give further water. Seek immediate medical attention.

**EYE CONTACT** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Seek urgent medical attention.

**SKIN CONTACT** Wash affected areas with copious quantities of water. If swelling, redness, blistering or irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use.  
Call a physician if necessary.

## FIRE FIGHTING MEASURES

FLASH POINT Not applicable  
UNUSUAL OR EXPLOSIVE HAZARDS: None. Not combustible.

### **SPECIAL FIREFIGHTING PROCEDURES AND UNUSUAL FIRE AND EXPLOSION HAZARDS**

Not combustible, but on heating emits toxic fumes. If safe to do so, remove containers from path of fire. Fire-fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to product or decomposition.

### **EXTINGUISHING MEDIA**

Not combustible, however if material is involved in a fire, use water fog, foam, dry agent.

### **HAZARDOUS COMBUSTION PRODUCTS**

Unknown.

## ACCIDENTAL RELEASE MEASURES

### **STEPS TO BE TAKEN WHEN MATERIAL IS SPILLED OR RELEASED**

Clear area of unprotected and non-essential personnel.

In case of accidental spill, protective clothing to prevent skin, eye and breathing vapours to be worn. Work up wind and increase ventilation.

Contain and prevent run-off into drains and waterways. Use absorbent material to contain. Neutralise with lime or soda ash. Collect and seal in properly labelled containers for disposal (use plastic, not steel). Wash down area with water. If contamination of sewers or waterways has occurred, advise local body or emergency services.

### **ENVIRONMENTAL INFORMATION**

Avoid contaminating waterways.

## HANDLING AND STORAGE

### **PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with skin and eyes. Avoid breathing vapours.

### **CONDITIONS FOR SAFE STORAGE**

Keep container closed when not in use.

Keep out of reach of children.

Store in a cool location (15-25 degrees C) away from incompatible materials. Keep container tightly closed when not being used.

### **MATERIALS TO AVOID**

Avoid uncontrolled contact with many metals as hydrogen gas will be liberated. Reacts violently with alkalis. Reacts with sodium hypochlorite and oxidising agents liberating chlorine.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### **EXPOSURE STANDARDS**

TWA None Established  
STEL None Established

### **ENGINEERING CONTROLS**

Local exhaust is preferred to keep exposure limits low. Mechanical area wide ventilation is acceptable. If this product is to be used in an area of poor ventilation, an acid mist respirator or air-supplied mask should be worn.

## PROTECTIVE GLOVES & CLOTHING

Clothing to prevent skin contact (e.g., overalls, splash apron) and solvent resistant safety boots (no eyelets). Elbow length gloves made from neoprene or equivalent. .

## EYE PROTECTION

Chemical goggles or full-face shield to be worn at all times.

## OTHER PROTECTION

Acid respirator or air-supplied mask if ventilation poor. Safety shower and eye bath. Keep a supply of water available at all times.

## PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY (Air = 1)	1.26
BOILING POINT IN DEGS C	98
SPECIFIC GRAVITY	1.14.
pH	~7
VISCOSITY	Liquid
APPEARANCE AND ODOUR	Fuming, light-yellow, pungent liquid.

## STABILITY AND REACTIVITY

### STABILITY

Stable. Reacts with alkalis.

### MATERIALS TO AVOID

Common metals and alkalis

### HAZARDOUS COMBUSTION PRODUCTS

Will not form hazardous decomposition products during normal storage.

### HAZARDOUS REACTIONS

Highly corrosive to most common metals with evolution of flammable hydrogen gas. Reacts violently with alkalis (hypochlorite evolving chlorine). Avoid contact with skin, eyes and clothing. Do not breathe vapour.

## TOXICOLOGICAL INFORMATION

INGESTION	Swallowing can result in corrosion of gastrointestinal tract, vomiting, diarrhoea and abdominal pain.
INHALATION	Vapour is an irritant to mucous membranes and respiratory tract. May cause coughing, choking and inflammation and ulceration of the respiratory tract. Exposure to high vapour concentrations or the acid as a mist may lead to lung damage including pulmonary oedema. Effects may be delayed.
CONTACT	Contact with skin may cause skin burns - corrosive. A severe eye irritant. High concentrations of vapours cause irritation. Will cause eye burns on contact.
CARCINOGENICITY	Not a carcinogen.
TOXICITY TO REPRODUCTION:	Does not impair fertility.
MUTAGENICITY	Not a mutagenic hazard.

## ECOLOGICAL INFORMATION

Avoid contaminating waterways.

OECD Biological degradation	Unknown.
Sewerage treatment	Unknown.

## DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

After dilution (with water) and neutralisation, refer to local by-laws for approved liquid waste landfill site. When intending to dispose of this material, the user is advised that this product may be classified as a Hazardous Waste under Regulations in effect at the time this MSDS was created.

## TRANSPORT INFORMATION

UN NUMBER	1789
HAZARD CLASS:	8
HAZCHEM:	2R
NZ DANGEROUS GOOD CLASS & SUBSIDIARY RISK	8
PACKAGING GROUP	II
PROPER SHIPPING NAME	Hydrochloric Acid Solution
POISON SCHEDULE	S3

## REGULATORY INFORMATION

H HSNO Approval number:	HSR002526
Group Standard:	Cleaning Products (Corrosive) 2006
HSNO Substance classification	6.1D, 8.1A, 8.2B, 8.3A, 9.3C

An approved handler is not required for this product.

## OTHER INFORMATION

Date of Issue:	May 2007
Supersedes Date:	January 2005

### Legend



Warning

Information in this MSDS relates to Mystic Acid in undiluted state however diluted material should be treated with the same precautions.

### IMPORTANT NOTICE:

The above recommendations are intended for the assistance of end users. They are based on our experience and judgement and data believed to be reliable but because the conditions under which, and the materials with which our products are used, are beyond our control our recommendations must not be regarded as amounting to legal warranty or as involving any liability on us.