

FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

185 Rata Street, P O Box 35 136, Naenae, Lower Hutt, New Zealand.

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product: **ETCHING FLUID**

Recommended Uses: Retarder to concrete surfaces.

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 inhalation of vapours or spray mists.

Hazard information:

 Harmful if swallowed. Vapours may cause drowsiness and dizziness. Causes mild skin irritation. May cause harmful effects to aquatic life. May be harmful if swallowed and enters airways.

COMPOSITION

Name	CAS Number	Content
Ethanol	64-17-5	17%
Methanol	67-56-1	<0.4%
Non-hazardous ingredients	—	To 100%

FIRST AID MEASURES

FIRST AID:

INHALATION Move victim to fresh air if necessary. Begin artificial respiration if breathing has stopped.

SWALLOWED DO NOT induce vomiting. Give a glass of water. Begin artificial respiration if the victim is not breathing – use mouth to nose and obtain medical attention immediately.

EYE CONTACT Flush eye thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs, seek medical attention.

SKIN CONTACT Remove contaminated clothing. Wash off with plenty of soap and water. If persistent irritation occurs, seek medical attention or contact National Poisons Centre on 0800 746 766.

Treat according to symptoms. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

In case of ingestion: - characteristic signs of alcoholism with initial excitation followed by depression. Death can result from respiratory failure in cases of severe overexposure.

FIRE FIGHTING MEASURES

FLASH POINT Not determined – will not burn at normal temperatures

UNUSUAL OR EXPLOSIVE HAZARDS: None known

SPECIAL FIREFIGHTING PROCEDURES AND UNUSUAL FIRE AND EXPLOSION HAZARDS

None

EXTINGUISHING MEDIA

Water spray

HAZARDOUS COMBUSTION PRODUCTS

Fumes from complete or incomplete combustion of this material may include carbon dioxide, carbon monoxide, and/or incomplete combustion products. Do not breathe smoke or fumes. Wear appropriate protective gear.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN WHEN MATERIAL IS SPILLED OR RELEASED

In case of accidental spill, protective clothing such as overalls should be worn. Wear Neoprene rubber gloves, impervious to chemicals, preferably long, for prolonged contact. Wear rubber boots.

Prevent liquid from escaping to drains and waterways. Contain leaking packaging in a containment drum or area.

If the spill is into water, and of a large quantity, notify the relevant authority.

If on land, contain the spilled liquid with sand or earth. If a large quantity has been spilled, recover by pumping (use a hand pump) or use a suitable absorbent material. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

ENVIRONMENTAL INFORMATION

Prevent contamination of soil and water. Do not allow product to enter municipal sewers, drains, natural streams or rivers.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Keep container tightly closed and secure when not in use. Use with adequate ventilation; avoid breathing of vapours, especially if product is sprayed. Avoid fine spray mists. Wear eye and skin protection.

An approved handler is not required for this product.

CONDITIONS FOR SAFE STORAGE

Keep out of reach of children.

Store in a cool location (15-25 degrees C) away from incompatible materials, sources of ignition and direct sunlight. Keep containers tightly closed when not being used.

INCOMPATIBLE MATERIALS

None known.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS

TWA 1000ppm mg/m³ for Ethanol

STEL 1880 ppm mg/m³ for Ethanol

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, a full or half facemask, with a filter suitable to provide protection should be worn.

PROTECTIVE GLOVES & CLOTHING

Protective clothing such as overalls should be worn. Wear gloves, impervious to chemicals, preferably long, for prolonged contact. Wear rubber boots. Remove and launder clothing soaked or soiled with this material before re-use.

EYE PROTECTION

Wear safety glasses.

OTHER PROTECTION

Avoid excessive skin contact.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	Clear blue liquid, sweet smell
VAPOR DENSITY (Air = 1)	No data
BOILING POINT IN DEGS C	>100 degrees C
FLASH POINT	No data
SPECIFIC GRAVITY	1.035
PERCENT VOLATILE BY VOLUME	< 17%
EXPLOSIVE LIMITS IN AIR	No data
SOLUBILITY WITH WATER	Completely

STABILITY AND REACTIVITY

STABILITY

Stable.

CONDITIONS TO AVOID

Avoid contact with skin and eyes.

HAZARDOUS COMBUSTION PRODUCTS

No decomposition products except on burning – see "Fire Fighting Measures"

HAZARDOUS REACTIONS

Stable under normal use conditions. Reacts with strong oxidising agents.

TOXICOLOGICAL INFORMATION

INGESTION	Ingestion will result in central nervous system effects including headaches, euphoria, dizziness, drowsiness, blurred vision, fatigue, convulsions. Liquid aspirated into lungs during ingestion or from vomiting may cause chemical pneumonitis. Other effects of ingestion similar to alcoholism.
INHALATION	Irritating to the respiratory tract. Inhalation of vapour may result in headache, nausea and vomiting. Ensure adequate ventilation, especially if product is sprayed. Use adequate ventilation and/or protective equipment. Keep below Worksafe Exposure Standard.
CONTACT	Slightly irritating to the skin. May cause skin problems following repeated or prolonged exposure. Irritating to the eyes. Irritating to skin following prolonged exposure. Prolonged or repeated contact may cause defatting of the skin that can lead to dermatitis. Wear gloves and overalls and eye protection when applying. Practically non-irritating.
CARCINOGENICITY	The IARC has evaluated alcohol drinking as a group 1 carcinogenic to humans.
MUTAGENICITY	Not a mutagenic hazard.
CHRONIC HEALTH EFFECTS	

Chronic intoxication by swallowing or repeated inhalation of Ethanol may cause degenerative changes in the liver, kidney, hair, gastrointestinal tract and heart muscle. Persons with rep-existing liver impairment, skin and respiratory disorders may be at an increased risk from exposure to Ethanol. This product contains less than 17% Ethanol by volume.

ECOLOGICAL INFORMATION

Fish toxicity	No data – expected to be harmful
Algae toxicity	No data – expected to be harmful
OECD Biological degradation	Expected to be biodegradable.
Sewerage treatment	Ethanol and products containing ethanol are not suitable for disposal by sewer.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Recover and recycle if possible. Clean empty container thoroughly, wash with detergent and water. Recycle if possible. Do not reuse packaging for any other purpose.

Waste material can be disposed of by incineration (preferably at high temperature) by an approved agent according to local regulations. Product can also be disposed of by controlled release onto a non-absorbent surface and allowed to dry – observe safety precautions. Dispose of in accordance with local rules. Be aware that local requirements may differ widely depending on location and may in many cases be different from national rules.

TRANSPORT INFORMATION

UN NUMBER	Not Regulated
HAZARD CLASS:	NA
NZ DANGEROUS GOOD CLASS & SUBSIDIARY RISK	NA
PACKAGING GROUP	III
PROPER SHIPPING NAME	Aqueous ethanol solution

REGULATORY INFORMATION

HSNO Approval number:	HSR002670
Group Standard:	Surface Coatings and Colourants (Subsidiary Hazard)
HSNO Substance classification	6.1E, 6.3B

OTHER INFORMATION

Date of Issue:	January 2010
Supersedes Date:	March 2009

Legend



Warning

IMPORTANT NOTICE:

The above information is intended for the assistance of end users with respect to health, safety and environmental requirements. Each user should read the MSDS and consider the data in context with how the product will be used/applied. It is based on data and information believed to be reliable but because the conditions under which, and the materials with which our products are used, are beyond our control this information must not be regarded as amounting to legal warranty or as involving any liability on us. No guarantee is expressed or implied regarding the accuracy of the data.