



# 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:** ER-921

**Recommended Uses:** Curing aid and evaporation retarder for concrete.

**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 eye & skin contact.



**Hazard information:**

Causes eye irritation. Irritating to the skin with prolonged contact. Poisonous if ingested in large quantities.

### COMPOSITION

Name	CAS Number	Content
Isopropanol	67-63-0	9 – 10%
Non-hazardous ingredients	—	to 100%

### FIRST AID MEASURES

**FIRST AID:**

**INHALATION** Not specific measures. If vapours are concentrated, move victim to fresh air.

**SWALLOWED** Do not induce vomiting. Give a glass of water. If feeling unwell, seek medical advice/attention. If a large quantity has been swallowed, seek medical attention.

**EYE CONTACT** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**SKIN CONTACT** May cause dryness and cracking following continuous and prolonged contact. For prolonged use, wear gloves. Wash hands well after use.

## FIRE FIGHTING MEASURES

FLASH POINT Not flammable, but will burn under elevated temperatures.

UNUSUAL OR EXPLOSIVE HAZARDS: None

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

During fire, gases hazardous to health may be formed.

### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

### HAZARDOUS COMBUSTION PRODUCTS

Potentially carbon monoxide and carbon dioxide.

## ACCIDENTAL RELEASE MEASURES

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

Cordon off area where spill occurred. Stop pedestrian and vehicular traffic until spill is cleaned up. Soak up liquid with an absorbent material such as sand, earth, sweeping compound or other similar material. Package collected absorbent material in suitable containers that are in good condition for later disposal. Thoroughly clean area where spill occurred with water and use a water blaster or manual scrubbing until no residue left. Prevent runoff into drains, streams or rivers. Product will evaporate with cleaning water.

### ENVIRONMENTAL INFORMATION

As this product is 100% soluble in water, large amounts may be toxic to aquatic organisms. Absorb any run-off from cleaning spills with non-combustible, absorbent material and dispose appropriately.

## HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes. If eye contact occurs, immediately rinse with water per First Aid Measures.

### CONDITIONS FOR SAFE STORAGE

Keep out of reach of children.

Store in a cool location (15-25 degrees C).

Keep container tightly closed when not being used.

### MATERIALS TO AVOID

None known, but may affect polystyrene and natural rubber after long periods of contact.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE STANDARDS

TWA None Established

STEL None Established

### ENGINEERING CONTROLS

A supply of clean water is recommended in case of eye contact.

### PROTECTIVE GLOVES & CLOTHING

Wear PVC gloves, impervious to chemicals, preferably long, for prolonged contact. Protective clothing is not required under normal conditions.

### EYE PROTECTION

Wear eye goggles when spraying.

### OTHER PROTECTION

No special requirements.

## PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY (Air = 1)	>1
SOLUBILITY IN WATER	Completely soluble
SPECIFIC GRAVITY	1.0
VISCOSITY	Liquid
APPEARANCE AND ODOUR	Light yellow, slight alcohol odour.

## STABILITY AND REACTIVITY

### STABILITY

Stable.

### MATERIALS TO AVOID

Sources of ignition.

### HAZARDOUS COMBUSTION PRODUCTS

Will not form hazardous decomposition products during normal storage or use. Under severe thermal degradation, low molecular weight organic compounds will be formed.

### HAZARDOUS REACTIONS

Stable under normal use conditions.

## TOXICOLOGICAL INFORMATION

INGESTION	Not expected to cause adverse health effects for small amounts. May cause stomach pain, vomiting and diarrhoea for larger quantities. Quantities in excess of 1000 – 2000ml could be fatal due to Isopropanol content. Symptoms of overexposure include flushing, pulse rate decrease, lowered blood pressure, narcosis, headaches, dizziness, vomiting, and nausea amongst others.
INHALATION	Not irritating under normal use in open areas.
CONTACT	May cause skin defatting following prolonged exposure. Irritating to the eye.
CARCINOGENICITY	Not a carcinogen.
TOXICITY TO REPRODUCTION:	Does not impair fertility.
MUTAGENICITY	Isopropanol in 100% concentration has mutation data reported.

### CHRONIC HEALTH EFFECTS

Prolonged skin contact may result in defatting and irritation. Isopropanol is easily absorbed through the skin yielding a narcotic reaction; therefore continual contact without proper skin protection should be avoided.

## ECOLOGICAL INFORMATION

Expected to be toxic to aquatic organisms in large quantities.

OECD Biological degradation	Expected to be biodegradable. Product rapidly evaporates to the air.
Sewerage treatment	No data. 100% Isopropanol is not suitable for disposal via sewers.

## DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Recover and recycle if possible. Thoroughly wash empty containers before recycling or reuse. Empty containers are not to be reused for storage except for chemicals compatible with the container.

Waste material can be disposed of by diluting with water (10 parts water to 1 part ER-921) and releasing to sewer, or in general landfill waste, or applied to concrete and allowed to dry. 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 – ROAD, RAIL & MARINE

UN NUMBER	FREE
HAZARD CLASS:	Non hazardous
NZ DANGEROUS GOOD CLASS & SUBSIDIARY RISK	Not applicable
PROPER SHIPPING NAME	Not applicable
POISON SCHEDULE	NA
PACKAGING GROUP	NA

## REGULATORY INFORMATION

HSNO Approval number:	Not regulated
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## OTHER INFORMATION

Date of Issue:	December 2008
Supersedes Date:	July 2005

### Legend



Warning

### **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.