



FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product:

FAIRFILL EPOXY HARDENER

Recommended Uses:

Fairing and filling epoxy system. Hardener is part of two-part system including FAIRFILL Epoxy Resin.

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 prolonged inhalation and/or continuous skin contact.

Hazard information:

Causes skin irritation.

Causes eye irritation

May cause an allergic skin reaction.

Repeated and/or prolonged exposure may cause nose, throat and lung irritation.

Harmful to aquatic life with long-lasting aquatic effects



COMPOSITION

Name	CAS Number	Content
Benzyl Alcohol	100-51-6	>20%
m-Phenylenebis(methylamine)	1477-55-0	<10%
2-Piperazin-1-ylethylamine	140-31-8	<7%
Non-hazardous ingredients	—	To 100%

FIRST AID MEASURES

FIRST AID:

INHALATION

Remove to fresh air if necessary. If breathing has stopped or is laboured, give assisted respirations. Obtain urgent medical attention.

SWALLOWED

DO NOT induce vomiting. In the unlikely event of ingestion, obtain medical attention immediately. Never give anything by mouth to an unconscious person.

EYE CONTACT

Hold eyelids apart and immediately flush thoroughly with plenty of water for at least 15 minutes. Seek urgent medical attention

SKIN CONTACT

Remove contaminated clothing. Wash off with plenty of soap and water. Apply hand cream. If persistent irritation occurs, seek medical attention.

Repeated and/or prolonged unprotected skin contact may cause skin sensitisation. If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

FIRE FIGHTING MEASURES

FLASH POINT Not determined (> 100 degrees C)

UNUSUAL OR EXPLOSIVE HAZARDS: None

SPECIAL FIREFIGHTING PROCEDURES AND UNUSUAL FIRE AND EXPLOSION HAZARDS

None known.

EXTINGUISHING MEDIA

Alcohol resistant foam, carbon dioxide, dry chemical, dry sand, limestone powder.

HAZARDOUS COMBUSTION PRODUCTS

May generate ammonia gas at high temperatures. May generate toxic nitrogen oxide gases. Carbon monoxide may be evolved if incomplete combustion occurs.

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.

As this material is a paste, scrape up excess material and package for reuse or disposal. Soak up residue with an absorbent material such as sand, earth, sweeping compound or other absorbent material. Package absorbent material or solid product in steel or plastic containers that are in good condition.

Thoroughly clean area where spill occurred using water and detergent. Retain washings as contaminated waste. Do not allow material to enter drains or surface water.

ENVIRONMENTAL INFORMATION

Prevent contamination of soil and water. Product is not readily biodegradable and has low potential to bioaccumulate. Product will float on water.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Use with adequate ventilation.

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 reaction with epoxy hardeners, strong oxidising agents, organic acids, mineral acids.

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, a full or half facemask, with a filter suitable to provide protection from organic gases and vapours, should be worn.

Avoid breathing dust if this product (when mixed with hardener) is to be cut or sanded.

PROTECTIVE GLOVES & CLOTHING

Protective clothing such as overalls should be worn. Wear nitrile or butyl rubber 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

Not necessary under normal use.

OTHER PROTECTION

Use barrier cream on exposed areas of skin. Avoid skin contact. If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should be avoided.

PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY (Air = 1)	Not determined
BOILING POINT IN DEGS C	>200
SPECIFIC GRAVITY	0.575.
VISCOSITY	Soft paste
APPEARANCE AND ODOUR	Grey soft, fluffy paste with ammonia odour

STABILITY AND REACTIVITY

STABILITY

Stable. Reacts with strong oxidising agents.

MATERIALS TO AVOID

Strong oxidizing agents, mineral and organic acids.

HAZARDOUS COMBUSTION PRODUCTS

In case of fire, hazardous decomposition products such as Carbon monoxide/dioxide, Nitric Acid, Ammonia, Nitrogen oxides and flammable hydrocarbon fragments may be produced.

HAZARDOUS REACTIONS

Stable under normal use conditions. Reacts with strong oxidising agents. Reactions with peroxides may result in violent decomposition of peroxide.

TOXICOLOGICAL INFORMATION

INGESTION	May cause effects such as headaches, nausea, vomiting, abdominal pain, dizziness. Toxicity, LD50 >4400 mg/kg (rat).
INHALATION	May cause nose, throat and lung irritation. Inhalation of vapours in high concentrations may cause irritation of respiratory system. Use with adequate ventilation. Avoid breathing dust if this product (when mixed with resin) is to be cut or sanded. Use adequate ventilation and/or protective equipment. Keep below Worksafe Exposure Standard for inspirable dusts of 10mg/m ³ .
CONTACT	May cause skin problems following repeated or prolonged exposure. Severely irritating to the eye. Corneal oedema may give rise to a perception of "blue haze" or "fog" around lights. This effect is temporary and has no know residual effect. Irritating to skin. If allowed to be absorbed through the skin due to continual and repeated contact, may result in headaches, nausea, and abdominal pain. Low toxicity, LD50 > 2000mg/kg (rabbit). Can cause skin sensitisation following repeated/prolonged exposure.
CARCINOGENICITY	Not a carcinogen.
MUTAGENICITY	Not a mutagenic hazard.
CHRONIC HEALTH EFFECTS	Repeated or prolonged skin contact may result in allergic contact dermatitis.

ECOLOGICAL INFORMATION

Fish toxicity	LC 50 = 10 mg/l (bluegill), 460mg/l (Fathead minnow)
Algae toxicity	LC 50 = 700 mg/l
OECD Biological degradation	Unknown.
Sewerage treatment	Unknown.

Note: Ecological information based on presence of component Benzyl Alcohol of epoxy hardener. In manufactured form (paste), FAIRFILL Hardener will not readily disperse into water and therefore toxic effects will be minimised over the short-term.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Recover and recycle if possible. Clean container thoroughly, wash with detergent and water. Recycle if possible.

Waste material can be disposed of by incineration (preferably at high temperature) by an approved agent according to local regulations. 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	2735
HAZARD CLASS:	8
NZ DANGEROUS GOOD CLASS & SUBSIDIARY RISK	8
PACKAGING GROUP	III
PROPER SHIPPING NAME	(POLY)AMINES LIQUID CORROSIVE, N.O.S.

REGULATORY INFORMATION

H HSNO Approval number:	HSR002670
Group Standard:	Surface Coatings and Colourants (Subsidiary Hazard) 2006
HSNO Substance classification	6.1D, 6.3A, 6.4A

OTHER INFORMATION

Date of Issue:	June 2007
Supersedes Date:	June 2002

Legend



Warning

Information in this MSDS relates to FAIRFILL Hardener in uncured state only. Cured state is inert and non-hazardous (avoid breathing dust if sanded or cut).

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.