FRASER BROWN & STRATMORE LTD.
Products for Concrete and Construction
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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product: **FAIRFILL EPOXY RESIN**

Recommended Uses: Fairing and filling epoxy system. Resin is part of two-part system including FAIRFILL Epoxy Hardener (curing agent).

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 and/or continuous skin contact.

Hazard information:

Causes mild skin irritation

Causes eye irritation

May cause an allergic skin reaction

Harmful to aquatic life with long-lasting aquatic effects

COMPOSITION

Name	CAS Number	Content
Reaction product: bisphenol-A (epoxy resin)	25068-38-6	40 - 45%
Bisphenol F	28064-14-4	16 – 25%
Alkylglycidyl ether	68081-84-5	8 – 15%
Non-hazardous ingredients	—	To 100%

FIRST AID MEASURES

FIRST AID:

INHALATION	No specific measures. Remove to fresh air if necessary.
SWALLOWED	**DO NOT** induce vomiting. In the unlikely event of ingestion, obtain medical attention immediately.
EYE CONTACT	Immediately flush eye thoroughly with plenty of water. If irritation occurs, seek 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 (> 150 degrees C)
UNUSUAL OR EXPLOSIVE HAZARDS:	None

SPECIAL FIREFIGHTING PROCEDURES AND UNUSUAL FIRE AND EXPLOSION HAZARDS

None

EXTINGUISHING MEDIA

Water spray, foam, or fog. Do not use water jet.

HAZARDOUS COMBUSTION PRODUCTS

Unknown. 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 the potential to bioaccumulate. Product will float on water.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes.

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 and caustic soda.

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	Not determined
SPECIFIC GRAVITY	0.58.
VISCOSITY	Soft paste
APPEARANCE AND ODOUR	White soft, fluffy paste with slight odour

STABILITY AND REACTIVITY

STABILITY

Stable. Reacts with strong oxidising agents.

MATERIALS TO AVOID

Strong oxidizing agents and caustic soda.

HAZARDOUS COMBUSTION PRODUCTS

Will not form hazardous decomposition products during normal storage.

HAZARDOUS REACTIONS

Stable under normal use conditions. Reacts with strong oxidising agents. Polymerises with amines (FAIRFILL hardener), mercaptans and Lewis acids at ambient temperatures and above.

TOXICOLOGICAL INFORMATION

INGESTION	Not expected to cause adverse health effects for small amounts. Large amounts may cause nausea and vomiting. Low toxicity, LD50 >2000 mg/kg.
INHALATION	Not generally irritating. May become irritating if heated or used in poorly ventilated areas. 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. Slightly irritating to the eye. Slightly irritating to skin. Low toxicity, LD50 > 2000mg/kg. 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	Expected to be toxic, 1 < LC/EC/IC 50 <= 10 mg/l
Algae toxicity	Expected to be toxic, 1 < LC/EC/IC 50 <= 10 mg/l
Invertebrates	Toxic, 1 < LC/EC/IC 50 <= 10 mg/l
OECD Biological degradation	Not readily biodegradable.
Sewerage treatment	Expected to be practically non-toxic (LC/EC/IC 50 > 100mg/l)

Note: Ecological information based on presence of components of epoxy resin. In manufactured form (paste), FAIRFILL Resin 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

The following information is only applicable for marine transport. Product is not regulated for road transportation.

UN NUMBER	3082
HAZARD CLASS:	9
NZ DANGEROUS GOOD CLASS & SUBSIDIARY RISK	9.1C
PACKAGING GROUP	III
PROPER SHIPPING NAME	Environmentally hazardous substance, N.O.S

REGULATORY INFORMATION

H HSNO Approval number:	HSR002670
Group Standard:	Surface Coatings and Colourants (Subsidiary Hazard) 2006
HSNO Substance classification	6.3B, 6.4A, 6.5B, 9.1C

OTHER INFORMATION

Date of Issue:	June 2007
Supercedes Date:	June 2002

Legend

Warning

Information in this MSDS relates to FAIRFILL Resin 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.