

FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

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PRODUCT SAFETY DATA SHEET

IDENTIFICATION

Product:

EPAR S Epoxy RESIN

(for standard, cold-cure and fast-set systems)

Recommended Uses: Epoxy grout for concrete. Resin is part of two-part system including EPAR S Hardener – standard, cold-curing or fast-set (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
-  O-CRESYL GLYCIDYLETHER suspected of causing genetic defects through skin contact. May cause damage to organs through prolonged or repeated skin contact. Wear protective gloves during mixing and application.
-  Harmful to aquatic life with long-lasting aquatic effects

COMPOSITION

Name	CAS Number	Content
Reaction product: Bisphenol-A (Epichlorohydrin) (epoxy resin)	25068-38-6	18 – 21%
O-CRESYL GLYCIDYLETHER	2210-79-9	5 – 6%
Silicon Dioxide	—	~40%
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** 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** Remove contaminated clothing and wash before re-use. IF ON SKIN: Wash with plenty of soap and water. Apply hand cream. If skin irritation occurs: Get medical advice/attention. Avoid prolonged or repeated skin contact.

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. Avoid skin contact. If exposed or concerned: Get medical advice/attention.

FIRE FIGHTING MEASURES

FLASH POINT Not determined (very high)

UNUSUAL OR EXPLOSIVE HAZARDS: None

SPECIAL FIREFIGHTING PROCEDURES AND UNUSUAL FIRE AND EXPLOSION HAZARDS

Not classified as flammable, but will burn.

EXTINGUISHING MEDIA

Water spray, foam, dry powder, carbon dioxide, earth. 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 sink in water. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Wear protective gloves & overalls. Apply barrier cream to exposed skin.

For larger packs, exercise care when lifting due to the weight.

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 contact. Wear rubber boots. Remove and launder clothing soaked or soiled with this material before re-use. Contaminated work clothing should not be allowed out of the workplace.

EYE PROTECTION

Not necessary under normal use, however wear tight fitting safety glasses or chemical goggles if chance of splashing.

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	1.77
pH	-7
VISCOSITY	Liquid
APPEARANCE AND ODOUR	Light grey 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 (EPAR S 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

Inhalation of vapours or mists may be irritating. May become irritating if heated or used in poorly ventilated areas.

Avoid breathing dust if this product (when mixed with hardener) is to be cut or sanded. Use adequate ventilation and/or protective equipment. Keep below Worksafe Exposure Standard for inspirable dusts of 10mg/m³.

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 considered to be a mutagenic hazard however O-CRESYL GLYCIDYLETHER is suspected of causing genetic defects through skin contact.

CHRONIC HEALTH EFFECTS

Repeated or prolonged skin contact may result in allergic contact dermatitis. May cause genetic defects and may cause damage to organs through prolonged or repeated skin contact. Skin contact should be avoided.

ECOLOGICAL INFORMATION

Fish toxicity	Practically non toxic, 100 < LC/EC/IC 50 <= 1000 mg/l
Algae toxicity	Toxic, 1 < LC/EC/IC 50 <= 10 mg/l
Invertebrates	Toxic, 1 < LC/EC/IC 50 <= 10 mg/l
Sewerage treatment	No data.

Note: Toxic effects based on raw material data. In manufactured form, EPAR S Resin will not readily disperse into water and therefore toxic effects will be minimised over the short-term. If product enters soil, one or more constituents will be mobile and may contaminate groundwater. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Recover and recycle if possible. Do not reuse empty containers.

Waste material can be disposed of by incineration (preferably at high temperature) by an approved agent according to local regulations. Alternatively, mix waste material with EPAR S Hardener and allow to cure. Dispose of hardened material in ordinary waste. 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

This product is environmentally hazardous to marine life.

UN NUMBER	3082
NZ DANGEROUS GOOD CLASS	9 (miscellaneous dangerous goods)
PACKAGING GROUP	III
HAZCHEM	2X
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ADDITIONAL INFORMATION	Contains LIQUID EPOXY RESIN, O-CRESYL GLYCIDYLETHER. Contain spillage.

REGULATORY INFORMATION

HSNO Approval number:	HSR002670
Group Standard:	Surface Coatings and Colourants (Subsidiary Hazard) 2006
HSNO Substance classification	6.3B, 6.4A, 6.5B, 6.6B, 6.9B (dermal) 9.1B
Approved Handler:	An approved handler is not required for this product.

HSNO Controls The following site and storage conditions trigger quantities are applicable for this product:

Requirement	Trigger Quantity (quantities greater than the amount listed trigger the requirement)
Response plans and secondary containment	1,000 kg
Signage	1,000 kg

OTHER INFORMATION

Date of Issue:	July 2011
Supersedes Date:	March 2010

Legend



Warning



Environmentally hazardous



Warning

Information in this MSDS relates to EPAR S Resin in uncured state only. Cured state is inert and non-hazardous under normal application conditions (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.