



# FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

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## MATERIAL SAFETY DATA SHEET

### PRODUCT: EPAR 226 FAST SET HARDENER

CHEMICAL FAMILY: Cycloaliphatic Amine (modified Isophorone Diamine)

#### SECTION A IDENTIFICATION EPAR 226 FAST SET HARDENER

UN NUMBER	1760
NZ DANGEROUS GOOD CLASS	8, 6.1
PROPER SHIPPING NAME	CORROSIVE LIQUID, N.O.S.
PACKAGING GROUP	II
HAZCHEM	2X

#### SECTION B HAZARDOUS INGREDIENTS EPAR 226 FAST SET HARDENER

Name	CAS Number	Content
3-AMINOETHYL-3,5,5-TRIMETHYLCYCLOHEXYL AMINE	2855-13-2	65 – 70%
CRESYLIC ACID	1319-77-3	14% (3.5% when mixed with EPAR 226 Resin)

#### SECTION C PHYSICAL DATA EPAR 226 FAST SET HARDENER

SOLUBILITY IN WATER	Miscible
VAPOR DENSITY (Air = 1)	—
BOILING POINT IN DEGS C	>200
SPECIFIC GRAVITY	~1
PERCENT VOLATILES	—
VISCOSITY	Liquid
APPEARANCE AND ODOUR	Amber liquid. Phenol-like.

#### SECTION D FIRE AND EXPLOSION DATA EPAR 226 FAST SET HARDENER

FLASH POINT	>100°C
UNUSUAL OR EXPLOSIVE HAZARDS:	Combustible. Keep away from all sources of ignition and heat. Use only in a well ventilated area. Flammable when exposed to flame, heat or oxidising substance.

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

Oxides of Nitrogen and carbon oxides may be evolved during a fire. Contain water used for extinguishing. Firefighters should wear full protective clothing and self-contained breathing apparatus.

#### EXTINGUISHING MEDIA

Water mist, Dry chemical, Foam, Carbon dioxide.

INGESTION	Harmful if swallowed.
INHALATION	Avoid inhalation. Vapours are likely to cause irritation and may cause burning sensation of the nose and throat. Use only in well-ventilated area. Wear a respirator. When mixed with Resin, avoid vapours during curing period.
CONTACT	Avoid all skin contact. Can burn skin. May cause local discomfort or pain, redness and swelling following contact. Can cause severe eye irritation/burns, experienced as discomfort or pain, excess blinking and tear production, marked excess redness. May cause skin sensitisation and aggravate existing dermatitis.

**FIRST AID:**

In all cases of suspected poisoning, seek medical aid at once. In the interim, the following first aid measures are appropriate.

INHALATION	Remove injured person to fresh air. In case of irritation of respiratory system or mucous membranes, or if feeling unwell or prolonged exposure, seek medical attention.
SWALLOWED	<b>DO NOT</b> induce vomiting. Immediately rinse out mouth & drink 500 – 800ml water. In case of vomiting, give water repeatedly. Do not give anything by mouth if unconscious. <b>Obtain medical attention immediately.</b>
EYE CONTACT	Immediately flush thoroughly with plenty of water for at least 15 minutes. Seek medical attention.
SKIN CONTACT	Wash off with copious amounts of soap and water Remove contaminated clothing. If irritation occurs or a large area is affected, seek medical attention.

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

**IN CASE OF FIRE USE EXTINGUISHING AGENTS RECOMMENDED.**

**EMERGENCY CONTACT NUMBER**

Poisons & Hazardous Chemicals, urgent information only (03) 474 7000

**STABILITY**

Stable.

**MATERIALS TO AVOID**

Avoid uncontrolled reaction with epoxy resins and acids. Avoid mixing large amounts of Hardener with epoxy resin. Avoid static discharges.

**HAZARDOUS COMBUSTION PRODUCTS**

Thermal decomposition or burning may release oxides of carbon, nitrogen and other toxic gases or vapours.

**HAZARDOUS POLYMERIZATION**

Will not occur.

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

In case of spill, wear protective equipment as described in section H. Soak up liquid with an absorbent material such as sand, earth, sweeping compound or other absorbent material. Package absorbent material or solid product in steel drums that are in good condition.

Thoroughly clean area where spill occurred. Do not allow material to enter drains or surface water.

**WASTE DISPOSAL METHOD**

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.

**ENVIRONMENTAL INFORMATION**

Hazardous to aquatic organisms. Prevent contamination of soil, drains and surface waters. Absorb any spilt material with sand, earth, sawdust, etc.

**VENTILATION**

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.

**PROTECTIVE GLOVES & CLOTHING**

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

**EYE PROTECTION**

Wear suitable goggles or face protection.

**OTHER PROTECTION**

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

**PRECAUTIONS FOR HANDLING AND STORING**

Store in a cool location (10-25 degrees C) away from incompatible materials. Keep container tightly closed when not being used. Store away from food and drink.

**NOT TO BE USED IN AREAS CONTAINING FOOD. CURED EPOXY NOT TO BE USED IN AREAS IN CONTACT WITH FOOD OR FOODSTUFFS.**

**OTHER PRECAUTIONS**

Causes eye and skin burns. Harmful and corrosive if swallowed. Avoid all skin contact. Use only in areas with good ventilation. Avoid breathing vapour. Always wear safety gear when using this product. Wash hands after use. Do not smoke or eat while handling this product.

**FOR COMMERCIAL USERS ONLY.**

**IMPORTANT NOTICE:**

The above recommendations are intended for the assistance of users and are of a general nature. 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.