



# FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

185 Rata Street, P O Box 35 136, Naenae, Lower Hutt, New Zealand.

Telephone (64 4) 567 8436, Fax (64 4) 567 7232, Email fbs@fbsltd.co.nz, Web www.fbsltd.co.nz

## PRODUCT SAFETY DATA SHEET

### IDENTIFICATION

**Product:** DISCRETE

**Recommended Uses:** Release agent for concrete formwork.

**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 contact and inhalation of vapours or spray mists or ingestion.

**Hazard information:**



May cause lung damage if swallowed. May be harmful if swallowed.

Concentrated vapours may cause irritation to the eyes, nose and throat.

May cause eye irritation. Repeated exposure may cause skin dryness or cracking.



Contains diesel which has been classified in NZ by the Environmental Risk Management Authority (ERMA) as a product suspected of being a cause of skin cancer under conditions of poor personal hygiene and prolonged and repeated contact. All products containing diesel fall under this category.



Contains diesel which is toxic to aquatic life with long-lasting effects.

### COMPOSITION

Name	CAS Number	Content
Diesel	68334-30-5	75 – 85%
Fatty Acid mixture	—	7 – 10%
Other non-hazardous ingredients	—	to 100%

### FIRST AID MEASURES

**FIRST AID:**

**INHALATION** Move victim to fresh air if necessary (there are adverse reactions). Begin artificial respiration if breathing has stopped. Obtain medical attention if breathing difficulty.

**SWALLOWED** **DO NOT** induce vomiting. Give 1 - 2 glasses of water. Begin artificial respiration if the victim is not breathing – use mouth to nose and obtain medical attention immediately. Do not give anything by mouth to an unconscious person.

**EYE CONTACT** Flush eye thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs, seek medical attention.

**SKIN CONTACT** Remove contaminated clothing. Wash off with plenty of soap and water. Do not use solvents to clean skin. If persistent irritation occurs, seek medical attention or contact National Poisons Centre on 0800 746 766. Launder contaminated clothing separately before reuse.

Treat according to symptoms. If in doubt, seek medical attention or advice (see also Toxicological Information Section).

## FIRE FIGHTING MEASURES

FLASH POINT (typical) >63 degrees C (Closed Cup Flash Point)

UNUSUAL OR EXPLOSIVE HAZARDS: None known.

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

Shut off product that may "fuel" a fire if safe to do so. Keep fire exposed containers cool by use of a water spray. For fires in enclosed spaces, fire fighters to wear self-contained breathing apparatus.

### EXTINGUISHING MEDIA

Dry chemical, foam, carbon dioxide or water fog. Do not use water jet.

### HAZARDOUS COMBUSTION PRODUCTS

Oxides of carbon, Sulphur Oxides, Incomplete combustion products, Smoke, Fumes.

## 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.

Prevent liquid from escaping to drains and waterways. Contain leaking packaging in a containment drum or area.

Eliminate all sources of ignition. Shut off source of the spill if safe to do so. Keep public away from the area. Although partially biodegradable over time, advise authorities if the liquid has entered a watercourse or sewer or has contaminated soil or vegetation.

If the spill is into water, and of a large quantity, notify the relevant authority.

If on land, contain the spilled liquid with sand or earth. If a large quantity has been spilled, recover by pumping (use a hand pump) or use a suitable absorbent material. If into water, confine the spill immediately with boom. Remove the product by skimming or with a suitable absorbent material. Package absorbent material in suitable containers that are in good condition.

Consultant an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### ENVIRONMENTAL INFORMATION

Although biodegradable over time, prevent contamination of soil and water. Product will float on water.

## HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Do not open or store near open flame, sources of heat or ignition. No smoking. Keep container closed when not in use.

Avoid excessive/prolonged contact with skin and avoid contact with eyes. Use with adequate ventilation; avoid breathing of vapours, especially if product is sprayed. Avoid fine spray mists.

An approved handler is not required for this product.

### CONDITIONS FOR SAFE STORAGE

Keep out of reach of children.

Store in a cool location (15-25 degrees C) away from incompatible materials, sources of ignition and direct sunlight. Keep containers tightly closed when not being used.

Ideally store in a banded location in case of accidental spill.

### INCOMPATIBLE MATERIALS

Wear chemically resistant gloves and oil resistant clothing for prolonged or repeated contact.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE STANDARDS

TWA Based on total hydrocarbons

Stable Aerosol: 5 mg/m<sup>3</sup>. Vapour: 200mg/m<sup>3</sup>. Inhalable fraction and vapour: 100 mg/m<sup>3</sup>.

STEL None Established

### ENGINEERING CONTROLS

General ventilation is recommended. Avoid excessive inhalation of vapours, especially in confined spaces. If this product is to be used in an area of poor ventilation and concentrations are likely to be high with little air change and/or if engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, a full or half facemask, with a filter suitable to provide protection (organic vapour) should be worn. Use explosion proof ventilation equipment if required.

### PROTECTIVE GLOVES & CLOTHING

Protective clothing such as overalls should be worn. Wear 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

Wear safety glasses or face shield when spraying or where eye contact may occur.

### OTHER PROTECTION

Avoid excessive or prolonged skin contact.

## PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	Low viscosity oily red. Acrid when new, sweet when older than 6 months.
VAPOUR DENSITY (Air = 1)	> 2
BOILING POINT IN DEGS C	>149 (based on Diesel)
FLASH POINT (typical)	>63 degrees C (Closed Cup Flash Point)
SPECIFIC GRAVITY	0.835.
AUTO IGNITION TEMPERATURE	Not established
EXPLOSIVE LIMITS IN AIR (% vol.)	LEL: 0.6, UEL: 7.0 (based on Diesel)
SOLUBILITY WITH WATER	Negligible

## STABILITY AND REACTIVITY

### STABILITY

Stable.

### CONDITIONS TO AVOID

Open flames, sources of heat and ignition. No smoking. Avoid strong acids, halogens and oxidisers.

### HAZARDOUS COMBUSTION PRODUCTS

No decomposition products except on burning – see "Fire Fighting Measures"

### HAZARDOUS REACTIONS

Stable under normal use conditions.

## TOXICOLOGICAL INFORMATION

INGESTION	Minimally Toxic, (Rat): LD50>5000 mg/kg. Material aspirated into lung may cause chemical pneumonitis.
INHALATION	Practically non-toxic, (Rat): LC50>5000 mg/m <sup>3</sup> . Excessive exposure to vapour or spray mists may cause irritation to throat, nose, eyes and lungs.
CONTACT	May cause skin irritation on prolonged or repeated exposure. Persons known to have a history of dermatitis or skin sensitisation should not work in direct contact with DISCRETE. May cause irritation or redness on contact with eyes. Wear goggles when spraying.  Prolonged or repeated skin contact may cause skin defatting which can lead to dermatitis. Wear protective gloves and clothing during application.
OTHER HEALTH EFFECTS	Contains Diesel which according to ERMA NZ has been suspected of causing skin cancer under conditions of poor personal hygiene and prolonged repeated contact. Diesel fuel tested carcinogenic in animal tests and caused mutations in-vitro.
CHRONIC HEALTH EFFECTS	Vapour concentrations at high exposure levels are irritating to the eyes and the respiratory tract and may cause headaches and dizziness.

## ECOLOGICAL INFORMATION

Ecotoxicity	Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Has the potential to bioaccumulate; however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.
Biological degradation	Majority of components -- Expected to be inherently biodegradable.
Sewerage treatment	No data.

## DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Recover and recycle if possible. Clean empty container thoroughly, wash with detergent and water. Recycle if possible. Do not reuse packaging for any other purpose other than to refill with original material. Do not pressurise, cut, weld, braze, solder, drill, grind or expose used containers to heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.

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	3082
HAZARD CLASS:	9
PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Diesel)
PACKAGING GROUP	III
HAZCHEM	3Z
MARINE POLLUTANT	Yes (for SEA IMDG)
PROPER SHIPPING NAME	DISCRETE (Fatty Acid Ester Oil Mixture)

## REGULATORY INFORMATION

HSNO Approval number:	HSR002680
Group Standard:	Surface Coatings and Colourants (Combustible, Toxic [6.7])
HSNO Substance classification	3.1D, 6.1E, 6.3B, 6.7B, 9.1B
HSNO Controls	Any location at which DISCRETE is stored in quantities that exceed those set out in the table below must comply with the requirements for a HSNO 3.1D liquid (as per the requirements of Diesel) – refer HSNO documentation.

Requirement	Trigger Quantity (quantities greater than the amount listed trigger the requirement)
Fire extinguishers	500 L
Response plans and secondary containment	1,000 L
Signage	1,000 L

## OTHER INFORMATION

Date of Issue:	June 2011
Supersedes Date:	July 2010

### Legend



Warning



Contains diesel which is suspected of causing skin cancer under conditions of repeated contact and poor personal hygiene.



Contains diesel which is toxic to aquatic life.

### **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.