



FRASER BROWN & STRATMORE LTD.

Products for Concrete and Construction

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

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product: **BIO-FORM**

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 through 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.

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

COMPOSITION

Name	CAS Number	Content
Methanol	67-56-1	May contain trace amounts.
Mineral oil, petroleum distillate	64742-53-6	<50%
Fatty Acids	—	Up to 5%
Biodiesel & 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.

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

FIRE FIGHTING MEASURES

FLASH POINT (typical) >100 degrees C (Pensky-Martens 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. Prevent extinguishing media from escaping into drains and waterways. Keep fire exposed containers cool by use of 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

Carbon dioxide. 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.

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, 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 partially 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 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.

INCOMPATIBLE MATERIALS

Natural rubber, Butyl Rubber, EPDM, Polystyrene, Latex as these materials may soften with contact. Avoid strong oxidising agents.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS

TWA None Established

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, a full or half facemask, with a filter suitable to provide protection should be worn.

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 skin contact.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	Low viscosity, oily tan liquid.
VAPOR DENSITY (Air = 1)	> 1
BOILING POINT IN DEGS C	Not established
FLASH POINT (typical)	>100 degrees C (Pensky-Martens Closed Cup Flash Point)
SPECIFIC GRAVITY	0.87.
AUTOIGNITION TEMPERATURE	Not established
EXPLOSIVE LIMITS IN AIR	Unknown
SOLUBILITY WITH WATER	Negligible

STABILITY AND REACTIVITY

STABILITY

Stable.

CONDITIONS TO AVOID

Open flames, sources of heat and ignition. No smoking.

HAZARDOUS COMBUSTION PRODUCTS

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

HAZARDOUS REACTIONS

Stable under normal use conditions.

TOXICOLOGICAL INFORMATION

INGESTION	Ingestion may result in headaches, nausea, dizziness and tracheal burning. Small amounts of liquid aspirated into lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary oedema. Low order of acute systemic toxicity. May contain traces of Methanol.
INHALATION	Excessive exposure to vapour or spray mists may cause irritation to throat, nose, eyes and lungs. Practically non-toxic when applied as directed with good ventilation or protection. Use adequate ventilation and/or protective equipment.
CONTACT	Not classified as a skin irritant, but may be irritating to skin following prolonged exposure. Prolonged or repeated contact may cause defatting of the skin that can lead to dermatitis. Wear gloves and overalls and eye protection when applying. Low toxicity.
CARCINOGENICITY	Not a carcinogen.
MUTAGENICITY	Not a mutagenic hazard.
CHRONIC HEALTH EFFECTS	

In case of swallowing, traces of methanol may be present, therefore consider poisoning effects by methanol and observe known period of latency of several days. Also contains methyl esters and mineral oil, petroleum distillates.

ECOLOGICAL INFORMATION

Fish toxicity	No data.
Algae toxicity	No data.
Biological degradation	Partially biodegradable due to biodiesel content over 28 days or more.
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.

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

Product is not regulated for road transportation.

UN NUMBER	NA
HAZARD CLASS:	Non-hazardous
NZ DANGEROUS GOOD CLASS & SUBSIDIARY RISK	Not regulated
PACKAGING GROUP	III
HAZCHEM	NA
PROPER SHIPPING NAME	BIO-FORM (Fatty Acid Ester Oil Mixture)

REGULATORY INFORMATION

HSNO Approval number:	Not regulated
Group Standard:	Not applicable
HSNO Substance classification	Not applicable
HSNO Controls	There are no storage or site controls for this product.

OTHER INFORMATION

Date of Issue: October 2008

Supersedes Date: May 2008

Legend



Warning

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.