

**1 IDENTIFICATION OF THE PRODUCT AND OF THE SUPPLIER**

Product Name	FR DUCT SEALER
Hazard Statement	Classified as Hazardous according to HSNO in New Zealand. Classified as a Dangerous Good according to NZS5433:1999 Transport of Dangerous Goods on Land.
Recommended Use	This product is a fire retardant, non slump, fast drying sealer. Once fully dried FR Duct sealer remains flexible, performing over a wide temperature range on both internal and external surfaces. It is paintable and bonds well to most commonly found construction surfaces such as galvanised steel, foils used in ducting, other metals, wood, and concrete.
Supplier	Bostik New Zealand Limited
Street Address	19 Eastern Hutt Road, Wingate, Lower Hutt, New Zealand
Telephone	++64 4 567 5119
Facsimile	++64 4 567 5412
Website	www.bostik.co.nz
Emergency Telephone Number	National Poisons Centre 0800 POISON or 0800 764 766
Emergency Response	In New Zealand 0800 CHEMCALL or 0800 243 622 In Australia 1800 033 111 Globally ++64 3 353 0199
Date first prepared	01 February 2007

2 HAZARDS IDENTIFICATION

Note: This product contains both volatile (solvents) and non-volatile components. During the normal use of this product, the hazardous volatile components evaporate and dissipate. The remaining non-volatile component is not hazardous.

Hazard Statement DANGER Highly flammable liquid and vapour.

Precautions Keep away from ignition sources such as heat, sparks and open flames.
Do not handle until safety precautions have been read and understood.

HSNO Classifications

- 3.1B Highly flammable liquid and vapour
- 6.1D Acute toxicity – Harmful if in contact with skin
- 6.3A Causes skin irritation



- 6.4A Causes severe eye irritation
6.8B Suspected damaging fertility or the unborn child
6.9B May cause damage to organs through prolonged or repeated exposure
9.1D Slightly harmful to aquatic life
9.2C Harmful in the soil environment

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	Proportion
Toluene (Benzene, methyl)	108-88-3	Medium
Non-hazardous materials	-	To 100%

High = >60% Medium = 10% - 60% Low = 1% - 10% Very Low = < 1%

4 FIRST AID MEASURES

If poisoning occurs, contact the National Poison Centre (New Zealand 0800 POISON or 0800 764 766).

First Aid

Inhalation Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Skin Contact Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance.

Eye Contact Immediately hold open and flood with water for at least 15 minutes. Eyelids to be held open. Get medical advice.

Ingestion Rinse mouth with water. Get medical advice immediately. Do NOT give anything to drink. Do NOT induce vomiting because of risk of aspiration. Never give anything by the mouth to an unconscious patient. Watch for toxic effects.

Advice to Physician Treat symptomatically. Effects may be delayed.

5 FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.



Type of Hazard	Flammable Liquid
HAZCHEM Code	3[Y]E
Fire Hazard Properties	Unknown due to the complex nature of this material. Fumes from complete or incomplete combustion of this material may include carbon dioxide, carbon monoxide, water vapour, oxides of nitrogen, hydrogen chloride or a wide variety of innocuous or toxic fumes. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along ground to sources of ignition.
Extinguishing Media	Water fog, foam, dry chemical, carbon dioxide
Unsuitable Extinguishing Media	Do not use a water jet.
Precautions for Firefighters	Wear full protective equipment, including self contained breathing apparatus.
Additional Advice	Keep adjacent containers cool by spraying with water.

6 ACCIDENTAL RELEASE MEASURES

Small Spills	Extinguish all ignition sources. Avoid sparks, flames and heat. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (rag or paper towels). Collect and seal in properly labelled containers or drums for disposal or recycling.
Large Spills	Extinguish all ignition sources. Avoid sparks, flames, heat and the build up of static electricity. Consider evacuation of area and/or site. Alert Emergency Services if required. Slippery when spilt. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours by wearing appropriate respirator. Contain spill to prevent run off into drains and waterways. Use absorbent (rags, soil, sand, or other inert material). Collect using spark-free shovels (ie. plastic) and seal in properly labelled containers or drums for disposal or recycling. See Disposal section of this SDS for further details.

7 HANDLING AND STORAGE

Handling	Avoid breathing of or contact with material. Use only in well ventilated areas. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Wear the appropriate personal protection equipment as specified in this SDS to prevent eye and skin contact. Wash thoroughly after handling.
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Storage Store in a cool, dry, well ventilated place and out of direct sunlight. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Store away from any incompatible materials as defined in Section 10 of this SDS. Keep containers closed when not in use. Check regularly for leaks. For unit sizes of 20 litres or more, store according to HSNO.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Guidelines

Substance	WES-TWA	WES-STEL
Toluene (Benzene, methyl)	50 ppm	-

Engineering Controls Use in a well ventilated area only. Vapour is heavier than air. Prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected. Keep containers in a well ventilated area. Explosion proof general and local exhaust ventilation system is required.

Personal Protection Equipment Avoid fume inhalation. Wear organic vapour respirator, especially if working in a poorly ventilated area. Selection of the correct cartridge is essential. Avoid skin contact. Avoid repeated and prolonged skin contact. Wear overalls or similar protective clothing. Wear solvent resistant gloves, and enclosed footwear. Avoid eye contact. Wear safety glasses, goggles or appropriate face shield.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Thick grey non slump paste
Odour	Solvent
Flash Point °C	4
Boiling Point °C	110 – 111
Lower & Upper Flammability Limits %	1.2 – 7.1
Auto-ignition Temperature °C	Not determined
Percent Volatile by weight	40
Specific Gravity	1.3
Solubility in Water	Nil

High = >60% Medium = 10% - 60% Low = 1% - 10% Very Low = < 1%

10 STABILITY AND REACTIVITY

Stability of Substance	This material is stable when stored and used as directed.
Conditions to Avoid	Avoid heat, sparks, flames and any other sources of ignition.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide, hydrogen chloride and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
Hazardous Reactions	Will react with strong oxidising agents.

11 TOXICOLOGICAL INFORMATION

Information given in this Safety Data Sheet is based on the data on the components and the toxicology of similar products.

No adverse health effects are expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Oral Toxicity	Harmful if swallowed. LD ₅₀ >2000 mg/kg bw.
Acute Dermal Toxicity	Harmful if contact with skin. LD ₅₀ >2000 mg/kg bw.
Acute Inhalation Toxicity	Harmful if inhaled. LC ₅₀ >20 mg/L in air.
Skin Irritation	Causes skin irritation.
Eye Irritation	Causes eye irritation.
Sensitisation (Respiratory & Contact)	Not expected to be a sensitiser.
Carcinogenicity	Not expected to be carcinogenic.
Reproductive / Developmental Toxicity	Suspected of damaging fertility or the unborn child.
Mutagenicity	Not expected to be mutagenic.
Target Organ Systemic	May cause damage to organs through prolonged or repeated exposure.

**12 ECOLOGICAL INFORMATION**

Acute Toxicity	
Aquatic	Slightly harmful to aquatic life.
Soil	Harmful in the soil environment.
Terrestrial Vertebrate	Not ecotoxic to terrestrial vertebrates.
Terrestrial Invertebrate	Not ecotoxic to terrestrial invertebrates.
Persistence & degradability	The solvent in this product is readily biodegradable. The remainder of the product is expected to biodegrade slowly.
Bioaccumulation	No data available on the product itself, however based on the individual ingredients, there is a low potential to bioaccumulate.
Mobility	Not miscible with water. Heavier than water.
Other Information	Because of the high rate of solvent evaporation, this product is unlikely to pose any hazard to aquatic life.

13 DISPOSAL CONSIDERATIONS

Substance Disposal	Do not let this product enter the environment. Do not dispose of down drains or into local waterways. Recycle or recover whenever possible. Dispose of substance to a hazardous or special waste collection point or through a licensed contractor. Normally suitable for incineration by an approved agent.
Container Disposal	Recycle if possible, or dispose of to a hazardous or special waste collection point. Beware: Empty flammable liquid drums present an explosion hazard if cut by flame or welding torch. Ensure drums are thoroughly cleaned and ventilated.
Local Legislation	Disposal should be in accordance with Hazardous Substances (Disposal) Regulations 2001, and with any other applicable regional and national laws and regulations.

14 TRANSPORT INFORMATION**Land Transport (NZS 5433:1999 Transport of Dangerous Goods on Land)**

UN Number	1133
Proper Shipping Name	ADHESIVES containing flammable liquid



DG Class 3
Subsidiary Risk Not applicable
Packing Group II
HAZCHEM Code 3[Y]E

Marine Transport (IMDG)

Identification Number 1133
Proper Shipping Name ADHESIVES containing flammable liquid
Class / Division 3
Packing Group II
Marine Pollutant Yes

Air Transport (IATA)

UN Number 1133
Proper Shipping Name ADHESIVES containing flammable liquid
Class / Division 3
Packing Group II

15 REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Environmental Risk Management Authority (ERMA) Group Standard Number:

Surface Coatings and Colourants (Flammable) Group Standard 2006
HSR002662

Hazardous Substances and New Organisms Act (HSNO):

The following are trigger quantities for this substance by itself in a place.

Approved Handler Test Certificate 250 litres, when in containers > 5 litres
500 litres, when in containers ≤ 5 litres

Tracking Not applicable

16 OTHER INFORMATION**SDS Revisions**

Safety Data Sheets are updated at least every 5 years. Obtain the latest version by visiting www.bostik.co.nz.

A vertical bar in the margin indicates an amendment from the previous version.



Reason for Issue SDS review.

SDS Distribution The information in this document should be made available to all who may handle this product.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use the product in the workplace. Since Bostik New Zealand Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Bostik New Zealand Limited.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is available upon request.

Key / Legend

SDS	Safety Data Sheet
HSNO	Hazardous Substances and New Organisms Act 1996
WES-TWA	The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.
WES-STEL	The 15 minute average exposure standard. This applies to any 15 minute period in a working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to WES-TWA; both the short-term and time-weighted average exposures apply.

Disclaimer This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.