SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Bostik Expanda Pro Gun Foam**
Product Code:	FB780
Product Use:	Foaming Polyurethane Filler
Manufacturer:	Bostik 148 Pavilion Drive, Airport Oaks Auckland Airport
New Zealand Supplier:	**Glasscorp Limited**
Address:	**124 Bush Road** **Albany** **Auckland** **New Zealand**
Telephone:	09 415 6338
Fax Number:	09 415 6339
Website	www.glasscorp.co.nz
Emergency Telephone:	**09 415 6338**
Date of issue:	20th January 2015

Section 2. Hazards Identification

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.**

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

Precautions

Keep out of reach of children
Keep away from heat, sparks, open flames and hot surfaces. No smoking
Pressurized container: Do not pierce or burn, even after use
Do not breathe spray
Wear protective gloves, clothing and eye protection
Protect from sunlight. Do not expose to temperatures exceeding 50°C

Do not handle until safety precautions have been read and understood.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact with this product.

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HSNO Classifications

2.1.1A	Extremely Flammable aerosol
6.1B	Harmful if inhaled
6.3B	Causes mild skin irritation
6.4A	Causes serious eye damage
6.9A	Causes damage to organs through prolonged or repeated exposure if inhaled
9.1D	Toxic to aquatic life

Section 3. Composition / Information on Ingredients

Chemical Name	CAS	Proportion (%)
2-Propanol, 1-chloro-, phosphate	13674-84-5	1 to 25
Polymethylene polyphenylisocyanate	9016-87-9	>25
Ethane, 1,1-difluoro- (Refrigerant gas R152A)	75-37-6	1 to 10
Propane	74-98-6	1 to 10
Propane, 2-methyl- (isobutane)	75-28-5	1 to 10
Methane, oxybis- (dimethyl ether)	115-10-6	1 to 10
(1,3-Butadiene)	106-99-0	<0.1

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

Section 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. 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 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.

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Section 5. Fire Fighting Measures

Clear fire area of all non-emergency personnel.

Type of Hazard	Flammable aerosol
Fire Hazard Properties	On burning: release of toxic and corrosive gases/vapours(phosphorus oxides, nitrous vapours, hydrofluoric acid, hydrogen chloride, carbon monoxide, carbon dioxide). May polymerize on exposure to temperature rise. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).
Extinguishing Media	Water, Polyvalent foam, BC powder, 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.

Section 6. Accidental Release Measures

Small Spills	Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Wear fill protective equipment, including self-contained breathing apparatus if necessary. Dam up the solid spill. Use appropriate containment to avoid environmental contamination. Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers and seal in properly labelled containers or drums. Clean (treat) contaminated surfaceswith acetone (caution on delicate substrates). See Disposal section of this SDS for further details.
Large Spills	Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Wear fill protective equipment, including self-contained breathing apparatus if necessary. Dam up the solid spill. Use appropriate containment to avoid environmental contamination. Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers and seal in properly labelled containers or drums. Clean (treat) contaminated surfaces with acetone (caution on delicate substrates). See Disposal section of this SDS for further details.

Section 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. Remove contaminated clothing immediately.
Storage	Storage temperature: <50°C. Store containers uprigh t 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. Store away from any incompatible materials as defined in Section 10 of this SDS. Keep containers closed when not in use.

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Section 8 Exposure Controls / Personal Protection

Workplace Exposure Guidelines

Substance	WES-TWA (UK)	WES-STEL (UK)
Isocyanates, all (as-NCO), except methyl isocyanate	0.02 mg/m^3	0.07 mg/m^3
Methane, oxybis- (dimethyl ether)	400ppm	500ppm

Engineering Controls Use spark/explosion proof appliances and lighting system. Keep away from naked flames/heat.

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.

Section 9 Physical and Chemical Properties

Appearance Aerosol

Odour Characteristic odour

Flash Point $_{oc}$ Not applicable

Boiling Point $_{oc}$ Not determined

Lower & Upper Flammability Limits % Not determined

Auto-ignition Temperature $_{oc}$ 550

Percent Volatile by weight Not determined

Specific Gravity 1.0

Solubility in Water Very low

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

Section 10. Stability and Reactivity

Stability of Substance This material is stable when stored and used as directed.

Conditions to Avoid Heat sources, ignition sources

Incompatible Materials Strong acids, strong bases, amines

Hazardous Decomposition Products On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: Release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrofluoric acid, hydrogen chloride, carbon monoxide – carbon dioxide).

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Hazardous Reactions	May polymerize with many compounds e.g. strong bases and amines. Reacts violently with some acids/bases.

Section 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	Low acute toxicity
Acute Dermal Toxicity	Low acute toxicity
Acute Inhalation Toxicity	Harmful if inhaled
Skin Irritation	Causes irritation
Eye Irritation	Causes serious irritation
Sensitisation (Respiratory & Contact)	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Carcinogenicity	Suspected of causing cancer
Reproductive / Developmental Toxicity	Not classified for reprotoxic or developmental toxicity
Mutagenicity	Not classified for mutagenic or genotoxic toxicity
Target Organ Systemic	May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

Acute Toxicity

Aquatic	No data available on ecotoxicity
Soil	No data available on ecotoxicity
Terrestrial Vertebrate	No data available on ecotoxicity
Terrestrial Invertebrate	No data available on ecotoxicity

Persistence and degradability Contains non readily biodegradable components

Bioaccumulation	No straightforward conclusion can be drawn based upon the available numerical values.
Mobility	No data on mobility of the components of the mixture available

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Section 13. Disposal Considerations

Substance Disposal	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.
Container Disposal	Recycle if possible, or dispose of to a hazardous or special waste collection point. Pressurised container – do not puncture
Local Legislation	Disposal should be in accordance with Hazardous Substances (Disposal) Regulations 2001, and with any other applicable regional and national laws and regulations.

Section 14 Transport Information

Land Transport (NZS 5433:1999 Transport of Dangerous Goods on Land)

UN Number	1950
Proper Shipping Name	AEROSOLS
DG Class	2
Subsidiary Risk	
Packing Group	
HAZCHEM Code	2YE

Marine Transport (IMDG)

Identification Number	1850
Proper Shipping Name	AEROSOLS
Class / Division	2.1
Packing Group	
Marine Pollutant	No

Air Transport (IATA)

UN Number	1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Class / Division	2.1
Packing Group	

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

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Section 15 Regulatory Information

Environmental Risk Management Authority (ERMA) Group Standard Number:
HSNO Approval Number HSR002517 - Aerosols

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

Section 16 Other Information

SDS Revisions	Safety Data Sheets are updated at least every 5 years. Obtain the latest version by visiting www.glasscorp.co.nz
Reason for Issue	New
SDS Distribution	The information in this document should be made available to all who may handle this product.

Disclaimer: This document has been issued by Glasscorp Limited and serves as the product Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Glasscorp Limited by the Manufacturer and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Glasscorp Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Glasscorp Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Please contact Glasscorp Limited, if further information is required.

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