

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

Product Name	Bostik Expanda Pro Gun Foam
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	Foaming polyurethane filler
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 SDS first prepared	20/01/2015

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

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.

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

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%

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.

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.

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 full 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.

Large Spills Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Wear full 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.

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 upright 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.

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Aerosol
Odour	Characteristic odour
Flash Point °C	Not applicable
Boiling Point °C	Not determined
Lower & Upper Flammability Limits %	Not determined
Auto-ignition Temperature °C	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%

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

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.

12 ECOLOGICAL 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

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.

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	

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:

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

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.

Reason for Issue New

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.



SAFETY DATA SHEET

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.