

**BOSTIK EXPANDA PRO GUN FOAM**  
 Revision Number 2

Revision date 29-Jul-2019  
 Supersedes Date: 01-Nov-2017

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product Identifier**

**Product Name** BOSTIK EXPANDA PRO GUN FOAM  
**Pure substance/mixture** Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** Sealant.  
**Uses advised against** No information available.

**1.3. Details of the supplier of the safety data sheet**

**Company Name**  
 Bostik New Zealand Limited  
 19 Eastern Hutt Road Wingate,  
 Lower Hutt, New Zealand  
 Tel: 04-567 5119  
 Fax: 04-567 5412

**1.4. Emergency telephone number**

**Emergency Telephone** 24 Hr: 0800 243 622  
 +64 4 917 9888  
 Poison Centre : 0800 764 766

**E-mail address** SDS.AP@Bostik.com

**Section 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

Acute toxicity - Oral	Category 4 (6.1D)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 (6.1D)
Skin corrosion/irritation	Category 2 (6.3A)
Serious eye damage/eye irritation	Category 2A (6.4A)
Respiratory sensitization	Category 1 (6.5A)
Skin sensitization	Category 1 (6.5B)
Carcinogenicity	Category 2 (6.7B)
Specific target organ toxicity - Single exposure	Category 3 ( 6.8)
Specific target organ toxicity - Repeated exposure	Category 2 (6.9B)
Aerosols	Category 1 (2.1.2A <sup>b</sup> )

**2.2. Label Elements**



**Signal word**

Danger

**Hazard statements**

H319 - Causes serious eye irritation

# SAFETY DATA SHEET

**BOSTIK EXPANDA PRO GUN FOAM**  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

H302 - Harmful if swallowed  
H351 - Suspected of causing cancer  
H315 - Causes skin irritation  
H332 - Harmful if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation  
H373 - May cause damage to organs through prolonged or repeated exposure  
H317 - May cause an allergic skin reaction  
H222 - Extremely flammable aerosol  
H229 - Pressurized container: May burst if heated

## Prevention

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P284 - In case of inadequate ventilation wear respiratory protection  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Pressurized container: Do not pierce or burn, even after use

## Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

## Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P362 - Take off contaminated clothing and wash before reuse  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

## Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention

## Ingestion

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
P330 - Rinse mouth

## Storage

P405 - Store locked up  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

## Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## 2.3. Other Hazards

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Mixture

### 3.2 Mixtures

Chemical name	CAS No.	Weight-%
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	20- <40
2-Propanol, 1-chloro-, phosphate (3:1)	13674-84-5	20- <40
1,1-Difluoroethane	75-37-6	5 - <10

\*\*\* Any remaining ingredients are not hazardous

# SAFETY DATA SHEET

BOSTIK EXPANDA PRO GUN FOAM  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	Get medical advice/attention. Remove and isolate contaminated clothing and shoes.
<b>Inhalation</b>	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
<b>Skin contact</b>	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Keep victim warm and quiet.

### 4.4. Reference to Other Sections

**Reference to other sections** Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO <sub>2</sub> . Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.
<b>Unsuitable extinguishing media</b>	No information available.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Some may burn but none ignite readily. Ruptured cylinders may rocket.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Formaldehyde.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Remove all possible sources of ignition in the surrounding area. Ensure adequate

# SAFETY DATA SHEET

BOSTIK EXPANDA PRO GUN FOAM  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

ventilation, especially in confined areas.

**Other information** Ventilate the area.

## 6.2. Environmental precautions

**Environmental precautions** Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas.

## 6.3. Methods and material for containment and cleaning up

**Methods for containment** If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate. Protect from moisture.

**Methods for cleaning up** Do not direct water at spill or source of leak.

## 6.4. Reference to other sections

**Reference to other sections** Section 7: HANDLING AND STORAGE  
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation, especially in confined areas. Use only in well-ventilated areas. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use.

### 7.2. Conditions for safe storage, including any incompatibilities

**General hygiene considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 50 - 95 °F. Observe local regulations / instructions for storage of pressurized containers. Protect from moisture. Protect from direct contact with water or excessive moisture. Keep from freezing.

**Incompatible materials** Strong oxidizing agents Acid anhydrides Strong acids

### 7.3. Specific end use(s)

**Specific Use(s)** Filler. Sealant.

**Other information** No information available.

### 7.4. References to Other Sections

**Reference to other sections** Section 13: DISPOSAL CONSIDERATIONS. Section 10: STABILITY AND REACTIVITY.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure Limits

Chemical name	New Zealand	Australia	European Union
Isocyanic acid, polymethylenepolyphenylene ester	-	0.02 mg/m <sup>3</sup> TWA 0.07 mg/m <sup>3</sup> STEL	-

# SAFETY DATA SHEET

BOSTIK EXPANDA PRO GUN FOAM  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

9016-87-9		
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Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

OTHER INFORMATION No information available

## 8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

### PPE - Personal Protection Equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.
Hand protection	Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
Respiratory protection	No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Color	Beige
Odor	Characteristic
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	
Vapor density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No information available	
Oxidizing properties	No information available	

# SAFETY DATA SHEET

BOSTIK EXPANDA PRO GUN FOAM  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

## 9.2. Other information

**Softening Point** No information available  
**Molecular weight** No information available  
**Solvent content (%)** No information available  
**Solid content (%)** No information available  
**Density** 1.04 g/cm<sup>3</sup>  
**Bulk density** No information available  
**VOC Content (%)** No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity** None under normal use conditions.

### 10.2. Chemical stability

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerization** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** Heating causes rise in pressure with risk of bursting. Protect from moisture.

### 10.5. Incompatible materials

**Incompatible materials** Strong oxidizing agents. Acid anhydrides. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Formaldehyde. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

#### Acute Toxicity

**Product Information** Harmful by inhalation.  
**Inhalation** No data available.  
**Eye contact** No data available.  
**Skin contact** No data available.  
**Ingestion** No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD 50 > 10000 mg/kg ( Rat )	LD 50 > 9400 mg/kg ( Rabbit )	=1.5 mg/L ( Rat ) 4 h
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	LD50 > 500 - < 2000 mg/kg (male) LD50 = 632 mg/kg (female) [Rat]	LD50 > 2000 mg/kg (Rat) OECD 402	> 5.05 mg/L ( Rat ) 4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Sensitization** No information available.

# SAFETY DATA SHEET

BOSTIK EXPANDA PRO GUN FOAM  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

**Germ cell mutagenicity** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target organ effects** Respiratory system, liver.  
**Aspiration hazard** No information available.  
**Carcinogenicity** No information available.

Chemical name	IARC	China	Japan
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Group 3	-	-

IARC (International Agency for Research on Cancer) *Group 3 - Not Classifiable as to Carcinogenicity in Humans*

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity

#### Product Information

None known.

#### Component Information

Data obtained on the component(s) include

Chemical name	Algae/aquatic plants	Fish	Crustacea
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L Fish (Danio rerio)	EC50 (24H) >1000 mg/L Daphnia magna
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	EC50 (72 h) = 82 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96 h) = 51 mg/L (Pimephales promelas)	EC50 (48 h) = 131 mg/L (Daphnia magna )

### 12.2. Persistence and degradability

No information available.

#### Component Information

#### Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

### 12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	200
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	2.68	4.6

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

# SAFETY DATA SHEET

BOSTIK EXPANDA PRO GUN FOAM  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	The substance is not PBT / vPvB
1,1-Difluoroethane 75-37-6	The substance is not PBT / vPvB

## 12.6. Other adverse effects

No information available.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## Section 14: TRANSPORT INFORMATION

### IMDG

UN number UN1950  
Proper Shipping Name Aerosols  
Transport hazard class(es) 2.1  
Marine Pollutant Np  
EmS-No. F-D, S-U  
Special Provisions 63, 190, 277, 327, 344, 381, 959  
Limited Quantity (LQ) See SP277  
Description UN1950, Aerosols, 2.1

### IATA

UN number UN1950  
Proper Shipping Name Aerosols, flammable  
Transport hazard class(es) 2.1  
ERG Code 10L  
Limited Quantity (LQ) 30 kg G  
Special Provisions A145, A167, A802  
Description UN1950, Aerosols, flammable, 2.1

### ADR

UN Number UN1950  
Proper Shipping Name Aerosols  
Transport hazard class(es) 2  
Labels 2.2  
Description UN1950, Aerosols, 2, (E)  
Limited Quantity (LQ) 1 L  
Special Provisions 327, 625, 344, 190  
Classification Code 5A  
Tunnel Restriction Code (E)

## Section 15: REGULATORY INFORMATION

### National Regulations

ERMA Group HSR002517

## Section 16: OTHER INFORMATION



# SAFETY DATA SHEET

**BOSTIK EXPANDA PRO GUN FOAM**  
Revision Number 2

Revision date 29-Jul-2019  
Supersedes Date: 01-Nov-2017

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## Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

## Key Literature References and Sources for Data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 29-Jul-2019

**Revision note** Not applicable.

**Training Advice** No information available

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**