

FIREBAN EXPANDA FOAM
 Revision Number 2

Revision Date 20-May-2019
 Supersedes Date: 08-May-2019

Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name FIREBAN EXPANDA FOAM

Product Code(s)

30614940
 30614940

Other means of identification

Proper Shipping Name Aerosols

UN Number UN1950

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Sealant

Uses advised against No information available

Details of manufacturer or importer

Supplier

Bostik Australia Pty Ltd
 51-71 High Street,
 Thomastown Victoria
 Australia
 Tel: 613 9279-9333
 Fax: 613 9279-9342

ABN: 79 003 893 838

E-mail address au-bostik-sds@bostik.com

Emergency telephone number

Emergency telephone number 24-hr Emergency: 1800 033 111

Section 2: Hazard(s) identification

GHS Classification

Based on available information, this material is classified as hazardous according to criteria of Safe Work Australia

Aerosols	Category 1 - (H222)(H229)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Label elements

Flame
Exclamation mark
Health hazard



Signal word
Danger

Hazard statements

H222 - Extremely flammable aerosol
H229 - Pressurized container: May burst if heated
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplementary first aid information on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

May be harmful if swallowed

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

Section 3: Composition and information on ingredients, in accordance with Schedule 8

Substance

Not applicable

Mixture

Chemical name	CAS No.	Weight-%
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	25 - 50%
2-Propanol, 1-chloro-, phosphate (3:1)	13674-84-5	5 - 20%
2,2-dimethylpropan-1-ol, tribromo derivative	36483-57-5	1 - 5%
Non-hazardous ingredients	Proprietary	Balance

Section 4: First aid measures

Emergency telephone number Poisons Information Center, Australia: 13 11 26
Poisons Information Center, New Zealand: 0800 764 766

FIRST AID

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. Consult an ophthalmologist.

Skin contact In case of contact with liquefied gas, thaw frosted parts with lukewarm water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion May produce an allergic reaction. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. Burning sensation. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Section 5: Firefighting measures

Suitable extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide (CO₂). Water spray.

Unsuitable extinguishing media DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Specific hazards arising from the chemical

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Avoid breathing vapors or mists.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Flood with water to complete polymerization and scrape off floor.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits

Chemical name	Australia
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	0.02 mg/m ³ TWA 0.07 mg/m ³ STEL

OEL as published by Safe Work Australia

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Hand protection Impervious gloves. Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Information on basic physical and chemical properties

Physical State	Aerosol
Appearance	Foam
Color	Pink
Odor	Characteristic
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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	18.6	
Lower flammability or explosive limits	1.8	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	1.05	
Water Solubility	Immiscible in water	
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	

Other information

Solid content (%)	No information available
VOC (volatile organic compound)	No information available
Density	No information available
Minimum Ignition Temperature (°C)	235

Section 10: Stability and reactivity

Reactivity

Reactivity	No information available.
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Chemical stability

Stability	Stable under normal conditions.
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Explosion Data

Sensitivity to mechanical impact	Yes.
Sensitivity to static discharge	Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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Conditions to avoid

Conditions to avoid	Heat, flames and sparks. Excessive heat.
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Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Information on likely routes of exposure

Product Information

- Inhalation** Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.
- Eye contact** Irritating to eyes. Causes serious eye irritation.
- Skin contact** Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes skin irritation.
- Ingestion** Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 3,758.30 mg/kg
ATEmix (inhalation-dust/mist) 4.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester	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)	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
2,2-dimethylpropan-1-ol, tribromo derivative	= 1630 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Component Information					
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit				Mild skin irritant

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Acute Dermal Irritation/Corrosion					
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Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization May cause sensitization by inhalation. May cause sensitization by skin contact.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig		No sensitization responses were observed
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitizing

Germ cell mutagenicity No information available.

Carcinogenicity No information available. None known.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Australia	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Carc. 2	
Component Information		
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

Reproductive toxicity No information available.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

Section 12: Ecological information

Ecotoxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	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)

Persistence and degradability

Persistence and degradability No information available.

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

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

Bioaccumulative potential

Bioaccumulative potential There is no data for this product.

Component Information

Chemical name	Partition coefficient
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	2.68

Mobility

Mobility in soil No information available.

Mobility No information available.

Other Adverse Effects

Other Adverse Effects No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: Transport information

ADG

UN Number UN1950
Proper shipping name Aerosols
Hazard Class 2.1
Special Provisions 63, 190, 277, 327, 344, 381
Description UN1950, Aerosols, 2.1

IATA

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

IMDG

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

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

Major hazard (accident/incident planning) regulation

Verify that license requirements are met

Hazardous chemical

Compressed or liquefied gases of Division 2.1 or Subsidiary
Risk 2.1

Threshold quantity (T)
200

National pollutant inventory

No substance(s) listed on inventory

International Inventories

AICS	Listed
NZIoC	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed

Legend:

AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: Any other relevant information

Prepared By Product Safety & Regulatory Affairs

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Revision note

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Safety Data Sheet

FIREBAN EXPANDA FOAM
Revision Number 2

Revision Date 20-May-2019
Supersedes Date: 08-May-2019

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Section 11: TOXICOLOGICAL INFORMATION

LD50 (lethal dose)

Section 12: Ecological information

EC50 (effective concentration)

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