



Safety Data Sheet

Window & Door Foam
Revision Number 1

Revision Date 16-May-2018
Supersedes Date: 16-May-2018

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

1.1. Product Identifier

Product Name Window & Door Foam

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

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

1.3. Details of the supplier of the safety data sheet

Responsible Party

Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1 (800) 843-0844 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)
Fax: +1 (414) 774-8075

Manufacturer

Siroflex Inc.
PO Box 26749
Greenville
SC 29616
Tel: 800.359.6398

E-mail msds@bostik-us.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332
(Outside U.S.) 1-703-527-3887

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Effects on or via lactation	Effects on or via lactation
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable aerosols	Category 1

2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled

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May cause an allergic skin reaction
May cause harm to breast-fed children
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
Extremely flammable aerosol
Pressurized container: May burst if heated



Appearance Aerosol

Physical State Gas

Odor Characteristic

Precautionary Statements - Prevention

Obtain special instructions before use
Do not breathe dust/fume/gas/mist/vapors/spray
Avoid contact during pregnancy/while nursing
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces. — 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 first aid measures 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 in a well-ventilated place. Keep container tightly closed
Store locked up
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown acute toxicity

80% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

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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	25 - 50
Alkanes, C14-17, chloro	85535-85-9	5 - 20
Propane	74-98-6	2 - 10
Isobutane	75-28-5	2 - 10
Dimethyl ether	115-10-6	2 - 10

The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	Remove contaminated clothing and shoes. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Eye contact	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.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-Protection of the First Aider	Remove all sources of ignition. Use personal protective equipment as required.

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

Symptoms	May cause sensitization by inhalation and skin contact. Irritating to eyes. Irritating to skin. May cause respiratory tract irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization of susceptible persons. May cause sensitization by inhalation and skin contact. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. Treat symptomatically.
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4.4. Reference to Other Sections

Reference to other sections	Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Section 11: TOXICOLOGY INFORMATION
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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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Suitable Extinguishing Media

Carbon dioxide (CO₂). Extinguishing powder. Water spray (fog).

Large Fire

Water spray or fog. Alcohol resistant foam.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the Chemical

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide. Carbon dioxide (CO₂). Formaldehyde.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

May be ignited by friction, heat, sparks or flames.

5.3. Advice for firefighters

Protective equipment and precautions for firefighters

In the event of fire and/or explosion do not breathe fumes. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment as required. Remove all possible sources of ignition in the surrounding area. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing.

6.2. Environmental precautions

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

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

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7.1. Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep locked up and out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 10 - 35 °C. Observe local regulations / instructions for storage of pressurized containers.

Incompatible Materials

Strong oxidizing agents. Acid anhydrides. Strong acids.

7.3. Specific end use(s)

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 Guidelines

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Propane 74-98-6	: See Appendix F: Minimal Oxygen Content, explosion hazard	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³	-
Isobutane 75-28-5	STEL: 1000 ppm explosion hazard	TWA: 800 ppm TWA: 1900 mg/m ³	-	-

Chemical Name	Argentina	Brazil	Chile	Venezuela
Propane 74-98-6	TWA: 2500 ppm	-	-	TWA: 1000 mg/m ³ TWA: 1000 ppm
Isobutane 75-28-5	-	-	-	TWA: 1000 ppm
Dimethyl ether 115-10-6	-	-	-	TWA: 1000 ppm TWA: 1920 mg/m ³

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Showers
Eyewash stations
Ventilation systems.

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Personal protective equipment [PPE]

Eye/Face Protection	Tight sealing safety goggles.
Skin and Body 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	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Keep working clothes separately. Take off all contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Gas
Appearance	Aerosol
Color	No information available
Odor	Characteristic
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	16%	
Lower flammability limit:	3%	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
		Water Solubility No information available
		Solubility in Other Solvents
		Partition Coefficient No information available
		Autoignition Temperature No information available
		Decomposition Temperature No information available

Kinematic Viscosity	No information available
Dynamic Viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

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	0.979 g/cm ³
VOC	< 190 g/L

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Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heating causes rise in pressure with risk of bursting. Keep away from heat, sparks and flames. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Acid anhydrides. Strong acids.

10.6. Hazardous decomposition products

Formaldehyde. Carbon monoxide. Carbon dioxide (CO₂).

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation

Harmful by inhalation

Harmful by inhalation. May cause sensitization by inhalation. May cause irritation of respiratory tract.

Eye contact

Irritating to eyes. Avoid contact with eyes.

Skin Contact

Irritating to skin. May cause sensitization by skin contact.

Ingestion

No data available.

Component Information

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/m ³ (Rat) 4 h
Alkanes, C14-17, chloro 85535-85-9	> 4000 mg/kg (rat)	> 2000 mg/kg (rat)	-
Propane 74-98-6	-	-	> 800000 ppm (Rat) 15 min
Isobutane 75-28-5	-	-	= 658 mg/L (Rat) 4 h
Dimethyl ether 115-10-6	-	-	= 164000 ppm (Rat) 4 h

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

Symptoms

No information available.

Skin Corrosion/Irritation

Irritating to skin.

Serious Eye Damage/Eye Irritation

Irritating to eyes.

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Irritation	No information available.
Corrosivity	No information available.
Sensitization	May cause sensitization by inhalation and skin contact.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	May cause harm to breastfed babies.
Developmental Toxicity	No information available.
Teratogenicity	No information available.
STOT - Single Exposure	May cause respiratory irritation.
STOT - Repeated Exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic Toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target Organ Effects	Heart, Central nervous system.
Aspiration hazard	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
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

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

12.1. Toxicity

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
Alkanes, C14-17, chloro 85535-85-9		LC50 48 h > 500 mg/L (Leuciscus idus static)		EC50 (48h) = 0.0059 mg/l (Daphnia magna) OECD 202

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

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13.1. Waste treatment methods

Disposal of Wastes It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Contaminated Packaging Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORTATION INFORMATION

DOT

UN/ID No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Special Provisions N82
Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT.
Description UN1950, Aerosols, 2.1, Marine Pollutant (Alkanes, C14-17, chloro)
Emergency Response Guide Number 126

IATA

UN/ID No UN1950
Proper Shipping Name Aerosols, flammable
Transport hazard class(es) 2.1
ERG Code 10L
Description UN1950, Aerosols, flammable, 2.1

IMDG

UN Number UN1950
Proper Shipping Name Aerosols (Alkanes, C14-17, chloro), Marine Pollutant
Transport hazard class(es) 2.1
EmS-No F-D, S-U
Special Provisions 63,190, 277, 327, 344, 381, 959
Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Description UN1950, Aerosols (Alkanes, C14-17, chloro), 2, Marine Pollutant

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

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WHMIS Hazard Class

D2A - Very toxic materials
B5 - Flammable aerosol
A - Compressed gases



United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9
Alkanes, C14-17, chloro	85535-85-9
Dimethyl ether	115-10-6
Propane	74-98-6
Isobutane	75-28-5

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical Name	CAS No
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9
Alkanes, C14-17, chloro	85535-85-9
Dimethyl ether	115-10-6
Propane	74-98-6
Isobutane	75-28-5

Section 16: OTHER INFORMATION

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 16-May-2018

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Revision Note Not applicable.

Training Advice No information available

Further information 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