Material Safety Data Sheet

Siroflex Window and Door Foam

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification
PRODUCT NAME .............................................. Siroflex Window and Door Foam
PRODUCT USE .............................................. Insulating Foam Sealant

Company Identification
MANUFACTURER/DISTRIBUTOR
Siroflex Incorporated
PO Box 26749
Greenville, SC 29616-1749

PHONE NUMBERS
Product Information/Emergency: 1-800-359-6398 1-864-458-9094
Fax: 1-864-458-9092
Website: www.siroflexinc.com
Email: info@siroflexinc.com

HAZARDS IDENTIFICATION

****************************EMERGENCY OVERVIEW**************************
* Flammable. Skin, eye and respiratory tract irritant. Aerosol. *

Potential Health Effects:

EYE: Contact may cause irritation and redness.

SKIN: Contact may cause irritation, redness and drying and cracking of skin.

INGESTION: Toxic if large quantities swallowed.

INHALATION: Irritation of the nose, throat, and lungs may result from over-exposure to vapors.
CHRONIC (CANCER) INFORMATION: Not carcinogenic.

LONG TERM TOXIC EFFECTS: None known.

**COMPOSITION/INFORMATION ON INGREDIENTS**

**HAZARDOUS COMPONENTS:**

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>CAS Reg. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(methylene phenylene isocyanate)</td>
<td>25-50</td>
<td>9016-87-9</td>
</tr>
<tr>
<td>Medium chain chlorinated paraffins (MCCP)</td>
<td>2.5-10</td>
<td>85535-85-9</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>2.5-10</td>
<td>115-10-6</td>
</tr>
<tr>
<td>Isobutane</td>
<td>2.5-10</td>
<td>75-28-5</td>
</tr>
<tr>
<td>Propane</td>
<td>2.5-10</td>
<td>74-98-6</td>
</tr>
</tbody>
</table>

**FIRST AID MEASURES**

First Aid

INHALATION: Remove to fresh air.

SKIN CONTACT: Wash thoroughly. Remove contaminated clothing.

EYE CONTACT: Irrigate eyes with running water for at least 15 minutes. Get medical attention if irritation develops.

INGESTION: Do not induce vomiting. Get medical attention.

**FIRE FIGHTING MEASURES**

FLASH POINT F° (C°): Not applicable as aerosol.

EXTINGUISHING MEDIA: Foam, fire extinguishing powder, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES / UNUSUAL FIRE OR EXPLOSION HAZARDS:
Firefighters should wear self contained breathing apparatus and full protective gear. Can form explosive gas/air mixtures. Cool endangered containers with water spray.

**ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Wear protective equipment. Ensure adequate ventilation. Keep away from ignition sources. Do not allow to enter sewers/surface or ground water. Absorb with liquid binding material such as sand or sawdust.

**HANDLING AND STORAGE**

Precautions for safe handling: Ensure good ventilation/exhaustion at the work-place. Open and handle receptacle with care. Do no eat, drink or smoke when using this product. Prevent formation of aerosols.

Information about fire - and explosion protection: Keep ignition sources away
– Do not smoke. Protect against electrostatic charges. Do not spray onto a naked flame or any incandescent material. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

**Requirements to be met by storerooms and receptacles:** Store in a cool location under dry conditions. Store only in the original receptacle. Observe official regulations on storing packagings with pressurized containers.

**Information about storage in one common storage facility:** Do not store together with oxidizing and selfigniting materials.

**Further information about storage conditions:** Protect from heat and direct sunlight. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

### EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE PROTECTION REQUIREMENTS:** Safety glasses/goggles.
**SKIN PROTECTION REQUIREMENTS:** Gloves.
**RESPIRATOR REQUIREMENTS:** Use if above OSHA PEL.
**VENTILATION REQUIREMENTS:** Use if above OSHA PEL.

**Exposure Guidelines**

**DIMETHYLETHER**
PEL (OSHA): not established
TLV (ACGIH): not established

**ISOBUTANE**
REL (OSHA): 800 ppm,

**PROPANE**
PEL (OSHA): 1000 ppm, 8 Hr. TWA
TLV (ACGIH): 1000 ppm, 8 Hr. TWA

### PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Color</td>
<td>Colored</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&lt; 100 °C</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>235 °C</td>
</tr>
<tr>
<td>Self-igniting</td>
<td>Product is not self igniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Not explosive but formation of explosive air/vapor mixtures are possible</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>3.0 %</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>16.0 %</td>
</tr>
<tr>
<td>Vapor pressure (20 °C)</td>
<td>5.5 bar</td>
</tr>
<tr>
<td>Density (20 °C)</td>
<td>1.0 g/cm³</td>
</tr>
</tbody>
</table>

### STABILITY AND REACTIVITY
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: Forms explosive gas mixture with air. Danger of bursting.

Conditions to avoid: Keep away from ignition sources, fire, and heating.


TOXICOLOGICAL INFORMATION

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LC50/4h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt; 5000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt; 5000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Inhalative</td>
<td>0.49 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

115-10-6 dimethyl ether

<table>
<thead>
<tr>
<th>Route</th>
<th>LC50/4h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalative</td>
<td>308 mg/l (rat)</td>
</tr>
</tbody>
</table>

Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Irritating effect.

Sensitization: Sensitization possible through inhalation or skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful, Irritant.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Limited evidence of a carcinogenic effect.

ECOLOGICAL INFORMATION

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available. Mobility in soil:

No further relevant information available.

Additional ecological information: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Based on 48h screening tests on Daphnia Magna (water fleas) and Desmo- desmus subspicatus (algae) short-term effects on aquatic life / environment can be excluded.

Results of PBT and vPvB assessment: Not applicable.

Other adverse effects: No further relevant information available.
DISPOSAL CONSIDERATIONS

Waste Disposal:
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

TRANSPORTATION INFORMATION

DOT

Proper Shipping Name : AEROSOLS, flammable
Hazard Class : 2.1
I.D. No. (UN/NA) : UN1950

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status: Reported/included.

Section 313 Supplier Notifications.
This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Canadian Regulations:
DSL: Included
WHMIS: WHMIS classification: B-5

European Regulations:
EINECS: Ingredients included.

OTHER INFORMATION

Additional Information
NA = Not Applicable
NE = Not Established
# = Indicates updated section

NPCA-HMIS Rating

Health : 1
Flammability: 4
Reactivity : 3

NFPA Rating

Health : 1
Flammability: 4
Reactivity : 3

Personal Protection rating to be supplied by user depending on use conditions.
STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the data compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.

Responsibility for MSDS:

Siroflex Incorporated
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Greenville, SC 29616-1749