Material Safety Data Sheet

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Component B for:
- Touch ‘n Seal® Foam kit Class I FR Foam
- Touch ‘n Seal Refillable Class I FR Foam
- Touch ‘n Seal CPDS Class I FR Foam
- Touch ‘n Seal Mine Foam
- Touch ‘n Seal Rib & Roof Foam Sealant
- Touch ‘n Seal Foam Kit Low Density

Product ID No: MSDS / B MF-FR

Recommended Use: Sealant, Insulation

Supplier Address: Convenience Products, Division of Clayton Corp. 
866 Horan Drive
Fenton, MO 63026-2416 USA
TEL: (636) 349-5333

Emergency Telephone Number: Chemtel 1-800-255-3924
(813) 248-0585 outside US

**2. HAZARDS IDENTIFICATION**

**WARNING!**

**Emergency Overview**
Contents under pressure.
May cause drowsiness and dizziness.

**Appearance** Pale Amber
**Physical State** Liquid Aerosol
**Odor** Faint hydrocarbon

**Potential Health Effects**

**Principle Routes of Exposure**
Inhalation, Skin contact, Eye contact.

**Acute Toxicity**
**Eyes** May cause slight irritation to eyes. Avoid contact with eyes.
**Skin** May cause slight skin irritation and/or dermatitis.

**Skin Absorption** A single prolonged exposure is unlikely to result in the material being absorbed in harmful amounts.
Inhalation
Maintain local exhaust ventilation system during use. If large concentrations of vapors build up they could cause upper respiratory tract and lung irritation. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Avoid breathing vapors or mists.

Ingestion
Not an expected route of exposure. No known effect based on information supplied.

Chronic Effects
No known effect based on information supplied

Birth / Developmental Effects:
No known effect based on information supplied

Aggravated Medical Conditions
Central nervous system. Use of alcoholic beverages may enhance toxic effects.

Interactions with Other Chemicals

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)</td>
<td>811-97-2</td>
<td>10-30</td>
</tr>
<tr>
<td>Proprietary Polyol Blend</td>
<td>Proprietary mixture</td>
<td>60-90</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice
If emergency warrants call 911 or emergency medical service. Show this safety data sheet to the doctor in attendance. Remove and wash soiled clothing before reuse.

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. Obtain medical attention, preferably from an ophthalmologist.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Remove soiled clothing; wash before reuse.

Inhalation
Move victim to fresh air. Apply artificial respiration if victim is not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Ingestion
Clean mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Drink plenty of water. Never give anything by mouth to an unconscious person.

Notes to Physician
Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Protection of First-aiders
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties
Pressurized cylinders exposed to fire can rupture.

Flash Point
None
Suitable Extinguishing Media
Isolate fire and deny unnecessary entry. Use an extinguishing agent suitable for type of surrounding fire. Dry chemical, CO₂, water spray, fog or regular foam. Stay upwind. Keep out of low areas where gases fumes can accumulate. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists. Do not scatter spilled material with high pressure water streams.

Explosion Data
- Sensitivity to mechanical impact: None
- Sensitivity to static discharge: None

Specific Hazards Arising from the Chemical
Ruptured cylinders may rocket.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA
- Health Hazard: 1
- Flammability: 1
- Stability: 0
- Physical and Chemical Hazards:

HMIS
- Health Hazard: 1
- Flammability: 1
- Stability: 0
- Personal Precautions: -B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Do not touch or walk through spilled material. Use appropriate safety equipment. Evacuate area. Keep personnel out of low areas, confined or poorly ventilated areas. Keep upwind of spill. Ensure adequate ventilation. No smoking in area. Only trained and properly protected personnel must be involved in clean-up operations.

Methods for Containment
If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate. Contain spilled materials if possible without risk. Absorb with materials such as Sawdust, dirt, and vermiculite. Collect in suitable and properly labeled open containers. Do not place in sealed containers. Wash what is left of the spill site with large quantities water.

Methods for Cleaning Up
Soak up with inert absorbent material (sand, silica sawdust). Sweep up and shovel into suitable containers for disposal. Do not direct water at spill or source of leak.

Other Information
Ventilate the area. Curing foam gives off HFC-134a. Do not put curing foam in a sealed drum.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash soiled clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. Contents under pressure. Do not puncture or incinerate cylinders. Container, even those that have been emptied, can contain vapors. Do not stick pin or any other sharp object into opening on top of cylinder.
Storage

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep in an area equipped with sprinklers. Keep out of the reach of children. Ideal storage temperature is 16-32 °C / 60 – 90 °F. Storage above 32 °C / 90 °F will reduce its shelf-life. Never keep at temperatures above 48.8 °C / 120 °F. Protect the container from physical abuse.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)</td>
<td>None-established</td>
<td>None-established</td>
<td>None-established</td>
</tr>
</tbody>
</table>

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

<table>
<thead>
<tr>
<th>Eye/Face Protection</th>
<th>Tightly fitting safety glasses with side-shields.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and Body protection</td>
<td>Lightweight protective clothing. Impervious gloves.</td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>Handle in accordance with good industrial hygiene and safety practice.</td>
</tr>
</tbody>
</table>

Hygiene Measures
When using, do not eat, drink or smoke. Maintain regular cleaning of equipment, work area and clothing.
9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** | Pale Amber | **Odor** | Faint hydrocarbon
---|---|---|---
**Odor Threshold** | No information available | **Physical State** | Liquid Aerosol
**pH** | No information available | **Flash Point** | None
**Decomposition temperature** | No data available | **Autoignition Temperature** | Not applicable
**Melting Point/Range** | No data available | **Boiling Point/Range** | -26°C / -15°F for HFC-134a
**Flammability Limits in Air** | No data available | **Explosion Limits** | No data available
**Specific Gravity** | 1.2 | **Water Solubility** | Not Compatible
**Solubility** | Compatible. | **Evaporation Rate** | No data available
**Vapor Pressure** | No data available | **Vapor Density** | No data available
**EPA VOC (g/l)** | 0
**Partition Coefficient (n-octanol/water)** | No data available

10. STABILITY AND REACTIVITY

**Stability** | Stable under recommended storage conditions
**Conditions to Avoid** | Keep away from open flames, hot surfaces and sources of ignition. Temperatures above 48.8 °C / 120 °F.
**Hazardous Decomposition Products** | Thermal Decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), Hydrogen cyanide.
**Hazardous Polymerization** | Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**
**Sensitization - Skin** | No acute toxicity information is available for this product
**Sensitization – Respiratory** | No acute toxicity information is available for this product

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation
---|---|---|---
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon) | Non-established | Non-established | Non-established

**Chronic Toxicity**

**Chronic Toxicity**
No Chronic toxicity information is available for this product.

**Carcinogenicity**
There are no known carcinogenic chemicals in this product.

**Mutagenicity**
Contains one or more known mutagenetic chemicals.

**Target Organ Effects**
Contains component(s) that have been reported to cause effects on the following organs in animals: (CNS) Kidney, Liver.

**Endocrine Disruptor Information**
This product does not contain any known or suspected endocrine disruptors.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Ecotoxicity effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)</td>
<td>None-established</td>
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<td>None-established</td>
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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
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<tbody>
<tr>
<td>1,1,1,2 – Tetrafluoroethane HFC-134a</td>
<td>1.06</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Should not be released into the environment. Dispose of in accordance with local regulations.

**Contaminated Packaging**
Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

**DOT**

- **UN-No**: UN1956
- **Proper Shipping Name**: Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
- **Hazard Class**: 2.2
- **Description**: Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)

**TDG**

- **UN-No**: UN1956
- **Proper Shipping Name**: Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
- **Hazard Class**: 2.2
- **Description**: Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)

**MEX**

- **UN-No**: UN1956
- **Proper Shipping Name**: Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
- **Hazard Class**: 2.2
- **Description**: Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)
### 14. TRANSPORT INFORMATION

**ICAO**

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN1956</th>
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<tr>
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<td><strong>Hazard Class</strong></td>
<td>2.2</td>
</tr>
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<td><strong>Description</strong></td>
<td>Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)</td>
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**IATA**

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<tr>
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<td>Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)</td>
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<tr>
<td><strong>Hazard Class</strong></td>
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<tr>
<td><strong>ERG Code</strong></td>
<td>2L</td>
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<tr>
<td><strong>Description</strong></td>
<td>Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)</td>
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**IMDG/IMO**

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<thead>
<tr>
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<tr>
<td><strong>Hazard Class</strong></td>
<td>2.2</td>
</tr>
<tr>
<td><strong>Classification Code</strong></td>
<td>5A</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)</td>
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</table>

**RID**

<table>
<thead>
<tr>
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<th>UN1956</th>
</tr>
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<tbody>
<tr>
<td><strong>Proper Shipping Name</strong></td>
<td>Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)</td>
</tr>
<tr>
<td><strong>Hazard Class</strong></td>
<td>2</td>
</tr>
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<td><strong>Classification Code</strong></td>
<td>5A</td>
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<tr>
<td><strong>Description</strong></td>
<td>Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)</td>
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**ADR**

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<td><strong>Classification Code</strong></td>
<td>5A</td>
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<td><strong>ADR/RID-Labels</strong></td>
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**ADN**

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<td>2</td>
</tr>
<tr>
<td><strong>Classification Code</strong></td>
<td>5A</td>
</tr>
<tr>
<td><strong>Special Provisions</strong></td>
<td>63, 190, 191, 277, 913</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)</td>
</tr>
<tr>
<td><strong>Hazard Labels</strong></td>
<td>2</td>
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</tbody>
</table>
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>One or more components not listed on inventory.</td>
</tr>
<tr>
<td>CHINA</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS (PH)</td>
<td>One or more components not listed on inventory.</td>
</tr>
<tr>
<td>AICS</td>
<td>One or more components not listed on inventory.</td>
</tr>
<tr>
<td>IECS</td>
<td>One or more components not listed on inventory.</td>
</tr>
<tr>
<td>NZ CLSC</td>
<td>One or more components not listed on inventory.</td>
</tr>
</tbody>
</table>

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)</td>
<td>811-97-2</td>
<td>10-30</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute Health Hazard: Yes
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: Yes
- Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain a substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

U.S. State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
International Regulations

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.

WHMIS Hazard Class
A Compressed gases

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2- Tetrfluoroethane, HFC-134a</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend
NPRI - National Pollutant Release Inventory
WHMIS – Workplace Hazardous Materials Information System
TSCA – Toxic Substance Control Act
DSL – Domestic Substance List
EINECS – European Inventory of Existing Commercial Chemical Substances
ENCS – Japan, Existing and New Chemical Substances
KECL- Korean Existing Chemical List
PICS – Philippine Inventory of Chemicals and Chemical Substances
AICS – Australian Inventory of Chemical Substances
TDG – Transportation of Dangerous Goods Act
ICAO – International Civil Aviation Organization
IATA – International Maritime Dangerous Goods Code
IMDG – International Maritime Dangerous Goods Code
IECS - Inventory of Existing Chemical Substances (China)
NZ CLSC – New Zealand Interim Inventory of Chemicals.

16. OTHER INFORMATION

Issuing Date 27-Feb-2007
Revision Date 12-Nov-2012
Revision Note Revised format. Revised by Clayton Corporation EHS Department
Disclaimer
The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS