




Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1	Fire Hazard	1	Reactivity	0		
Health Hazard	1								
Fire Hazard	1								
Reactivity	0								

Issuing Date 27-Feb-2007

Revision Date 12-Nov-2012

Revision Number 5

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	Oxidizing agents. Strong acids. Strong Bases.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)	811-97-2	10-30
Proprietary Polyol Blend	Proprietary mixture	60-90

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

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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.

<u>NFPA</u>	Health Hazard 1	Flammability 1	Stability 0	Physical and Chemical Hazards -
<u>HMIS</u>	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.
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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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)	None-established	None-established	None-established

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures

Showers
 Eyewash stations
 Ventilation systems

**Personal Protective Equipment
 Eye/Face Protection**

Tightly fitting safety glasses with side-shields.

Skin and Body protection

Lightweight protective clothing. Impervious gloves.

Respiratory Protection

Handle in accordance with good industrial hygiene and safety practice.

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	Autoignition Temperature	Not applicable
Decomposition temperature	No data available	Boiling Point/Range	-26°C / -15°F for HFC-134a
Melting Point/Range	No data available		
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.
Incompatible Products	Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.
Hazardous Decomposition Products	Thermal Decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), 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

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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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.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)	None-established			None-established
Chemical Name		Log Pow		
1,1,1,2,-Tetrafluoroethane HFC-134a		1.06		

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

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

IATA

UN-No UN1956
Proper Shipping Name Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
Hazard Class 2.2
ERG Code 2L
Description Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)

IMDG/IMO

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

RID

UN-No UN1956
Proper Shipping Name Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
Hazard Class 2
Classification Code 5A
Description Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)
ADR/RID-Labels 2

ADR

UN-No UN1956
Proper Shipping Name Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
Hazard Class 2
Classification Code 5A
ADR/RID-Labels 2

ADN

UN-No UN1956
Proper Shipping Name Compressed gas, n.o.s. (Fluorinated Hydrocarbon, Nitrogen)
Hazard Class 2
Classification Code 5A
Special Provisions 63, 190, 191, 277, 913
Description Nonflammable gas (Fluorinated Hydrocarbon, Nitrogen)
Hazard Labels 2

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15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Complies
ENCS	One or more components not listed on inventory.
CHINA	Complies
KECL	Complies
PICCS (PH)	One or more components not listed on inventory.
AICS	One or more components not listed on inventory.
IECS	One or more components not listed on inventory.
NZ CLSC	One or more components not listed on inventory.

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.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)	811-97-2	10-30	1.0

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).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)		

U.S. State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon)		X	X		X

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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



Chemical Name	NPRI
1,1,1,2- Tetrafluoroethane, HFC-134a	X

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

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Revision Note Revised format. Revised by Clayton Corporation EHS Department

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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