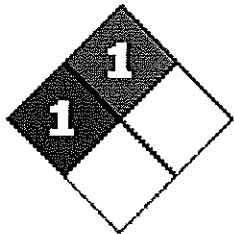




Material Safety Data Sheet

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

Issuing Date March 18, 2008

Revision Date May 14, 2008

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Component B for Zero Draft Two Component Foam Kit (Regular)
Recommended Use	Insulation, Sealant
Supplier Address	Convenience Products, division of Clayton Corp. 866 Horan Drive Fenton, MO 63026-2416 USA TEL: (636) 349-5855
Emergency Telephone Number	Chemtrec 1-800-424-9300 (703) 627-3887 outside US

2. HAZARDS IDENTIFICATION

Emergency Overview		
May cause drowsiness and dizziness.		
Appearance Pale Amber	Physical State Liquid	Odor Faint hydrocarbon

Potential Health Effects

Principle Routes of Exposure	Inhalation, Skin contact, Eye contact.
Acute Toxicity	
Eyes	May cause slight irritation. Avoid contact with eyes.
Skin	May cause skin irritation and/or dermatitis. Contact with product may cause frostbite. Avoid contact with skin and clothing.
Inhalation	May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Irritating to mucous membranes. 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
Aggravated Medical Conditions	Central nervous system.
Environmental Hazard	See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. If symptoms persist, call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Containers may explode when heated.
Flash Point	None
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal.
Unsuitable Extinguishing Media	Do not scatter spilled material with high pressure water streams.
<u>Explosion Data</u>	
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
Wear self-contained breathing apparatus and protective suit.

<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 -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with eyes. Ensure adequate ventilation. Do not breathe vapors or spray mist.

Storage Keep containers tightly closed in a cool, well-ventilated place. 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. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles.
Skin and Body protection Wear protective gloves/clothing.
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.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale Amber	Odor	Faint hydrocarbon
Odor Threshold	No information available	Physical State	Liquid (Frothable)
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	1.1	Water Solubility	Not Compatible
Solubility	No data available	Evaporation Rate	No data available
Vapor Pressure	No data available	Vapor Density	No data available
VOC Content	Not applicable	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.
Incompatible Products	Oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO ₂).
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information . No acute toxicity information is available for this product..

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,1,1,2- Tetrafluoroethane HFC-134a	None-established	None-established	None-established

Subchronic Toxicity (28 days)

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Mutagenicity

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards

Target Organ Effects Central nervous system (CNS).

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)

Chemical Name	Log Pow
1,1,1,2- Tetrafluoroethane HFC-134a	1.061

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2.2
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)

TDG

Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2.2
UN-No UN1956
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)

MEX

Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2.2
UN-No UN1956
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)

ICAO

UN-No UN1956
Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2.2
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)

IATA

UN-No UN1956
Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2.2
ERG Code 2L
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)

IMDG/IMO

Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2
UN-No UN1956
EmS No. F-D, S-U
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)

RID

Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2
UN-No UN1956
Classification Code 5A
Description NONFLAMMABLE GAS (Fluorocarbon, Nitrogen)
ADR/RID-Labels 2

ADR

Proper Shipping Name Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
Hazard Class 2
UN-No UN1956
Classification Code 5A
ADR/RID-Labels 2

Note: Transportation information provided is for reference only. Client is urged to consult 49 CFR 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

International Inventories

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

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	Weight %	SARA 313 - Threshold Values
1,1,1,2- Tetrafluoroethane, HFC-134a	811-97-2	10-30	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
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, contains one or more 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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,1,1,2- Tetrafluoroethane*, HFC-134a		X	X		

* Workplace Environmental Exposure Level (AIHA) 8 hours TWA 1000ppm.

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits

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

16. OTHER INFORMATION

Issuing Date March 18, 2008

Revision Date May 14, 2008

Revision Note

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

