




## Material Safety Data Sheet

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

Issuing Date 27-Feb-2007

Revision Date

Revision Number 0

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Component B for Touch 'n Seal Foam Kit (3pcf)
<b>Recommended Use</b>	Seal Design
<b>Supplier Address</b>	2965 LaVanture Place • Elkhart, IN 46514 Phone: 574-970-4841 • Fax: 574-970-4843 www.sealdesignllc.com ----- TEL: (636) 349-5855
<b>Emergency Telephone Number</b>	Chemtrec 1-800-424-9300 (703) 527-3887 outside US

### 2. HAZARDS IDENTIFICATION

Emergency Overview		
Contents under pressure. May cause irritation of respiratory tract		
<b>Appearance</b> Pale Amber	<b>Physical State</b> Liquid Aerosol	<b>Odor</b> Faint hydrocarbon

#### Potential Health Effects

<b>Principle Routes of Exposure</b>	Inhalation, Skin contact, Eye contact.
<b>Acute Toxicity</b>	
<b>Eyes</b>	May cause slight irritation. Avoid contact with eyes.
<b>Skin</b>	May cause skin irritation and/or dermatitis. Contact with product may cause frostbite. Avoid contact with skin and clothing.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	Not an expected route of exposure. No known effect based on information supplied.
<b>Chronic Effects</b>	No known effect based on information supplied
<b>Aggravated Medical Conditions</b>	None known
<b>Environmental Hazard</b>	See Section 12 for additional Ecological information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Flame Retardant	Proprietary	5-10
1,1,1,2-Tetrafluoroethane	811-97-2	10-30

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.
<b>Notes to Physician</b>	Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	Containers may explode when heated.
<b>Flash Point</b>	None
<b>Suitable Extinguishing Media</b>	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.
<b>Unsuitable Extinguishing Media</b>	Do not scatter spilled material with high pressure water streams.
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	None
<b>Sensitivity to static discharge</b>	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.

<b>NFPA</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 1	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 1	<b>Stability</b> 0	<b>Personal Precautions</b> -

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Ensure adequate ventilation
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	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**

<b>Handling</b>	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.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

NIOSH IDLH: Immediately Dangerous to Life or Health

**Engineering Measures**                      Showers  
    Eyewash stations  
    Ventilation systems

**Personal Protective Equipment**  
**Eye/Face Protection**                      Tightly fitting safety goggles.  
**Skin and Body protection**                Long sleeved 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

<b>Appearance</b>	Pale Amber	<b>Odor</b>	Faint hydrocarbon
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid Aerosol
<b>pH</b>	No information available		
<b>Flash Point</b>	None	<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition temperature</b>	No data available	<b>Boiling Point/Range</b>	-26°C / -14.8°F
<b>Melting Point/Range</b>	No data available		
<b>Flammability Limits in Air</b>	No data available	<b>Explosion Limits</b>	No data available
<b>Specific Gravity</b>	1.1	<b>Water Solubility</b>	Not Compatible
<b>Solubility</b>	No data available	<b>Evaporation Rate</b>	No data available
<b>Vapor Pressure</b>	No data available	<b>Vapor Density</b>	No data available
<b>VOC Content</b>	Not applicable	<b>EPA VOC (g/l)</b>	0
<b>Partition Coefficient (n-octanol/water)</b>	No data available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Products</b>	Oxidizing agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).
<b>Hazardous Polymerization</b>	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
Flame Retardant	500 mg/kg ( Rat )	1230 mg/kg ( Rabbit ) 5000 mg/kg ( Rat )	5 mg/L ( Rat ) 4 h
1,1,1,2-Tetrafluoroethane			1500 g/m <sup>3</sup> ( Rat ) 4 h

**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)
Flame Retardant	EC50 = 4 mg/L 96 h EC50 = 45 mg/L 72 h		EC50 = 295 mg/L 30 min	EC50 = 63 mg/L 48 h

Chemical Name	Log Pow
Flame Retardant	2.59

**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** Consumer commodity  
**Hazard Class** ORM-D  
**Description** Consumer commodity,ORM-D,

**TDG**

**Proper Shipping Name** Aerosols  
**Hazard Class** 2.2  
**UN-No** UN1950  
**Description** AEROSOLS,2.2,UN1950

**MEX**

**Proper Shipping Name** Aerosols  
**Hazard Class** 2.2  
**UN-No** UN1950  
**Description** UN1950 Aerosols,2.2,

**ICAO**

**UN-No** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.2

**14. TRANSPORT INFORMATION**

	Description	Aerosols, UN1950
<b>IATA</b>	UN-No	UN1950
	Proper Shipping Name	Aerosols, non-flammable
	Hazard Class	2.2
	ERG Code	2L
	Description	UN1950, Aerosols, non-flammable, 2.2
<b>IMDG/IMO</b>	Proper Shipping Name	Aerosols
	Hazard Class	2
	UN-No	UN1950
	EmS No.	F-D, S-U
	Description	UN1950, Aerosols, 2
<b>RID</b>	Proper Shipping Name	Aerosols
	Hazard Class	2
	UN-No	UN1950
	Classification Code	5A
	Description	UN1950 Aerosols, 2, RID
	ADR/RID-Labels	2
<b>ADR</b>	Proper Shipping Name	Aerosols
	Hazard Class	2
	UN-No	UN1950
	Classification Code	5A
	ADR/RID-Labels	2
<b>ADN</b>	Proper Shipping Name	Aerosols
	Hazard Class	2
	Classification Code	5A
	Special Provisions	63, 190, 191, 277, 913
	Description	UN1950 Aerosols, 2,
	Hazard Labels	2
	Limited Quantity	See SP277

**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:

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
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		X			

**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



**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**

Issuing Date 27-Feb-2007

Revision Date

Revision Note No information available

**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**