



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Component A 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 Kit Low Density

Product Use: Sealant.

Manufacturer/Supplier: Convenience Products
866 Horan Drive
Fenton, MO
63026-2416

Phone Number: (636) 349-5333

Emergency Phone: Chemtrec 800-424-9300
Outside USA 703-527-3887

Date of Preparation: February 27, 2009

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

EXTREMELY FLAMMABLE. VERY TOXIC BY INHALATION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

- Eye:** May cause eye irritation.
- Skin:** May cause skin irritation. May cause sensitisation by skin contact.
- Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.
- Inhalation:** Very toxic by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	UN Number	H / F / R / Special*	CAS #	Wt. %
4,4'-Diphenylmethane diisocyanate	Not available.	Not available.	101-68-8	30 - 60
Polymethylene polyphenyl isocyanate	Not available.	Not available.	9016-87-9	30 - 60
Methylenediphenyl diisocyanate	Not available.	Not available.	26447-40-5	5 - 10
1,1,1,2-Tetrafluoroethane	UN3159	Not available.	811-97-2	7 - 13

* Per NOM-018-STPS-2000

Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinguishing:

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

Products of Combustion: May include, and are not limited to: oxides of carbon.



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Scoop up material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 49 °C / 120 °F.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
4,4'-Diphenylmethane diisocyanate	0.2 mg/m ³	0.2 mg/m ³
Polymethylene polyphenyl isocyanate	Not available.	Not available.
Methylenediphenyl diisocyanate	Not available.	Not available.
1,1,1,2-Tetrafluoroethane	Not available.	Not available.

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.
Color:	Pale Amber.
Odour:	Faint hydrocarbon.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	Not available.
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	~ -26 °C (~ -14.8 °F)
Flash Point:	Not available.
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	1.2
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	0



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Bases. Oxidizers.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	IDLH	LD ₅₀ (oral)	LC ₅₀
4,4'-Diphenylmethane diisocyanate	75 mg/m ³	9200 mg/kg, rat	178 mg/m ³ , rat
Polymethylene polyphenyl isocyanate	Not available	49000 mg/kg, rat	490 mg/m ³ , 4hr rat
Methylenediphenyl diisocyanate	Not available	Not available.	Not available.
1,1,1,2-Tetrafluoroethane	Not available	Not available.	1500 gm/m ³ 4 hrs, rat

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: May cause skin irritation. May cause sensitisation by skin contact. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

Inhalation: Very toxic by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
4,4'-Diphenylmethane diisocyanate	Not listed.
Polymethylene polyphenyl isocyanate	Not listed.
Methylenediphenyl diisocyanate	Not listed.
1,1,1,2-Tetrafluoroethane	Not listed.

* See Section 15 for more information.



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not classified as a marine pollutant under IMDG regulations.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification

ORM-D

TDG Classification

Limited Quantity

NOM-004-SCT2-1994 Classification

Limited Quantity

IMDG

UN1956, Compressed Gas n.o.s. (Fluorinated Hydrocarbon, Nitrogen)

IATA

UN1956, Compressed Gas n.o.s. (Fluorinated Hydrocarbon, Nitrogen)

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
4,4'-Diphenylmethane diisocyanate	Not listed.	Not listed.	5,000	313
Polymethylene polyphenyl isocyanate	Not listed.	Not listed.	Not listed.	313
Methylenediphenyl diisocyanate	Not listed.	Not listed.	Not listed.	Not listed.
1,1,1,2-Tetrafluoroethane	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

Ingredient	Canada DSL/NDL	USA TSCA
4,4'-Diphenylmethane diisocyanate	DSL	Yes.
Polymethylene polyphenyl isocyanate	DSL	Yes.
Methylenediphenyl diisocyanate	DSL	Yes.
1,1,1,2-Tetrafluoroethane	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 2 Flammability - 1 Physical Hazard - 1

NFPA - National Fire Protection Association:

Health - 2 Fire - 1 Reactivity - 1

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

- Class A - Compressed Gas
- Class B5 - Flammable Aerosol
- Class D1A - Very Toxic Material
- Class D2A - Respiratory Sensitization
- Class D2A - Chronic Toxic Effects
- Class D2B - Skin Sensitization

WHMIS Hazard Symbols:



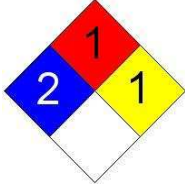
Mexico Classification:



MATERIAL SAFETY DATA SHEET

Component A 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 Kit Low Density



Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Expiry Date: February 27, 2012

Version #: 1.0

Prepared by: Nexreg Compliance Inc.
Phone: (519) 488-5126
www.nexreg.com