




Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>2*</td> </tr> <tr> <td>Fire Hazard</td> <td>4</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	Health Hazard	2*	Fire Hazard	4	Reactivity	1		
Health Hazard	2*								
Fire Hazard	4								
Reactivity	1								

Issuing Date 13-Feb-2007

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Touch 'n Foam® MaxFill Maximum Expanding Sealant
 Touch n Foam Triple Expanding Sealant
 Touch ' Foam Minimal Expanding Sealant
 Touch 'n Seal® Quick Cure Straw Foam

Synonyms

Recommended Use Insulation

Supplier Address Convenience Products, Division of Clayton Corp.
 866 Horan Drive
 Fenton, MO 63026-2416
 TEL: (636) 349-5855

Emergency Telephone Number Chemtrec 1-800-424-9300
 (703) 527-3887 outside US

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Flammable gas.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

May produce an allergic reaction

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

May cause drowsiness and dizziness.

May cause adverse cardiovascular effects.

Appearance Amber

Physical State Liquid Aerosol

Odor Hydrocarbon-like

Potential Health Effects

Acute Toxicity

Eyes

Irritating to eyes. Risk of serious damage to eyes.

Skin

Harmful in contact with skin. Will bond to skin. May cause sensitization by skin contact.

Inhalation

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Harmful by inhalation. Irritating to respiratory system. May cause allergic respiratory reaction.

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Inhalation of vapors in high concentration may cause shortness of breath (lung edema). May

cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion

May be harmful if swallowed. May cause additional affects as listed under "Inhalation".

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may cure in the gastrointestinal tract and form an obstruction. May cause adverse cardiac effects, blood disturbances, and metabolic acidosis.

Chronic Effects

Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Aggravated Medical Conditions Allergies. Skin disorders. Respiratory disorders. Central nervous system. Preexisting eye disorders.

Interactions with Other Chemicals Irritants. Sensitizers. Epoxies. Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Flame retardant	Proprietary	10-30
Polymethylene polyphenylene isocyanate	9016-87-9	10-30
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30
Polyol blend	Proprietary	10-30
Isobutane	75-28-5	5-10
Methylenediphenyl diisocyanate	26447-40-5	1-5
Propane	74-98-6	1-5
Dimethyl ether	115-10-6	5-10

4. FIRST AID MEASURES

Eye Contact Call a physician immediately. 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.

Skin Contact Wash skin with soap and water. If symptoms persist, call a physician.

Inhalation Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion Call a physician or Poison Control Center immediately. May produce an allergic reaction. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

Notes to Physician Keep victim warm and quiet.

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 Containers may explode when heated.

Flash Point -104°C / -155°F

Suitable Extinguishing Media Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO₂. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

Explosion Data

Sensitivity to mechanical impact	None
Sensitivity to static discharge	Yes

Specific Hazards Arising from the Chemical
Some may burn but none ignite readily. Ruptured cylinders may rocket.

Protective Equipment and Precautions for Firefighters
Wear self-contained breathing apparatus and protective suit.

NFPA	Health Hazard 2	Flammability 4	Stability 1	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 4	Stability 1	Personal Precautions B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.
Methods for Cleaning Up	Do not direct water at spill or source of leak.
Other Information	Ventilate the area.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep at temperatures below 48.8 °C / 120 °F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene bisphenyl isocyanate (MDI)	TWA: 0.005 ppm	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	75 mg/m ³
Isobutane	TWA: 1000 ppm	N/A	N/A
Propane	TWA: 1000 ppm	TWA: 1000 ppm	2100 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields.
Skin and Body protection	Impervious gloves. Lightweight protective clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber	Odor	Hydrocarbon-like
Odor Threshold	No information available	Physical State	Liquid Aerosol
pH	No information available		

Flash Point	-104°C / -155°F	Autoignition Temperature	Not applicable
Decomposition temperature	No data available	Boiling Point/Range	-42°C / -43.6°F
Melting Point/Range	Not applicable		
Flammability Limits in Air	No data available	Explosion Limits	No data available
Specific Gravity	1.01	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 (lb/gal)	1.29
EPA VOC (g/l)	155	Viscosity	No information available
Partition Coefficient (n-octanol/water)	Not applicable		

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	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

Product 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
Polymethylene polyphenylene isocyanate	49 g/kg (Rat)	9400 mg/kg (Rabbit)	490 mg/m ³ (Rat) 4 h
Methylene bisphenyl isocyanate (MDI)	9200 mg/kg (Rat)		
Polyol blend	64 mL/kg (Rat)	20 mL/kg (Rabbit)	
Isobutane			658 mg/L (Rat) 4 h
Methylenediphenyl diisocyanate		6200 mg/kg (Rabbit)	0.369 mg/L (Rat) 4 h
Propane		658 mg/kg (Rat)	
Dimethyl ether			308.5 mg/L (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity

Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Repeated or prolonged contact causes sensitization, asthma and eczemas.

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), Eyes, Respiratory system, Immune system, Skin, Cardiovascular system.

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
Methylenediphenyl diisocyanate	EC50 = 3230 mg/L 96 h			EC50 > 1000 mg/L 24 h

Chemical Name	Log Pow
Flame retardant	2.59
Isobutane	2.88
Propane	2.3
Dimethyl ether	-0.18

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment. Dispose of in accordance with local regulations. Allow foam to cure before disposal.

Contaminated Packaging Dispose of in accordance with local regulations

US EPA Waste Number D001

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 2.1
UN-No UN1950
Description AEROSOLS,2.1,UN1950

MEX
Proper Shipping Name Aerosols
Hazard Class 2.1
UN-No UN1950
Description UN1950 Aerosols,2.1

ICAO
UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description Aerosols,UN1950

IATA
UN-No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1

14. TRANSPORT INFORMATION

ERG Code	10L
Description	UN1950,Aerosols, flammable,2.1
IMDG/IMO	
Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
EmS No.	F-D, S-U
Description	UN1950, Aerosols,2
RID	
Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Classification Code	5A
Description	UN1950 Aerosols,2,RID
ADR/RID-Labels	2
ADR	
Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Classification Code	5A
ADR/RID-Labels	2
ADN	
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

TSCA	Complies
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
Polymethylene polyphenylene isocyanate	9016-87-9	10-30	1.0
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30	1.0
Methylenediphenyl diisocyanate	26447-40-5	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methylene bisphenyl isocyanate (MDI)	5000 lb	

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
Methylene bisphenyl isocyanate (MDI)	X	X	X	X	X
Propane	X	X	X		X
Isobutane	X	X	X		
Dimethyl ether	X	X	X		X

International Regulations

Mexico - Grade

Serious risk, Grade 3

The exposure limits values for 101-68-8 are listed under two synonyms:

Diphenylmethane diisocyanate - 0.02 ppm TWA; 0.2 mg/m³ TWA

Methylene bisphenyl isocyanate - 0.005 ppm TWA; 0.051 mg/m³ TWA

Chemical Name	Carcinogen Status	Exposure Limits
Methylene bisphenyl isocyanate (MDI)		Mexico: TWA= 0.2 mg/m ³ Mexico: TWA= 0.02 ppm Mexico: TWA= 0.005 ppm Mexico: TWA= 0.051 mg/m ³

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

D2B Toxic materials



Chemical Name	NPRI
Methylene bisphenyl isocyanate (MDI)	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Issuing Date 13-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