Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol
2 1	Health Hazard2*Fire Hazard4Reactivity1		FLAMMABLE GAS 2
Issuing Date 15-Feb-2007	Revision I	Date	Revision Number 0
1	. PRODUCT AND COM	PANY IDENTIFICA	TION
Product Name	Touch 'n Foam Minimal Ex White Lightning Stop Gap I	panding Sealant Minimal Expanding Insulating	g Foam
Recommended Use	Insulation		
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) 527-3887 outside US		
	2. HAZARDS ID	ENTIFICATION	
WARNING!			
Persons allergic to isocyanate	Contents un Flamma Harmful by inhalation, in cont May cause allergic May cause sensitiza Irritating to eyes, respi es, and particularly those suffe work with is	respiratory reaction. ation by skin contact ratory system and skin.	wed. r respiratory conditions, should not
		ardiovascular effects.	

Potential Health Effects

Principle Routes of Exposure	Inhalation, Skin contact, Eye contact.
Acute Toxicity Eyes Skin	Irritating to eyes. Risk of serious damage to eyes. Harmful in contact with skin. Will bond to skin. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation Ingestion	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. 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. Kidney disorders. Liver 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 %
Polymethylene polyphenylene isocyanate	9016-87-9	10-30
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30
Flame Retardant	Proprietary	10-30
Polyol blend	Proprietary	10-30
Isobutane	75-28-5	1-5
Methylenediphenyl diisocyanate	26447-40-5	5-10
Propane	74-98-6	1-5
Dimethyl ether	115-10-6	5-10

4. FIRST AID MEASURES

General Advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
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. Remove and wash contaminated clothing before re-use.
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 / -15	55°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 rocket.					
Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.					
<u>NFPA</u>	Health Hazard 2	Flammability	4	Stability 1	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability	4	Stability 1	Personal Precautions -
6. ACCIDENTAL RELEASE MEASURES					

Personal Precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Take precautionary measures against static discharges. Use personal protective equipment. Keep people away from and upwind of spill/leak.		
Methods for Containment	If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate. Dike to collect large liquid spills.		
Methods for Cleaning Up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Do not direct water at spill or source of leak.		
Other Information	Ventilate the area.		
7. HANDLING AND STORAGE			

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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

Handling

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	TWA: 0.005 ppm	Ceiling: 0.02 ppm	75 mg/m ³
(MDI)		Ceiling: 0.2 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 Skin and Body protection Respiratory Protection	Safety glasses with side-shields. Impervious gloves. Lightweight protective clothing. 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	Pale Amber	Odor	Faint hydrocarbon
Odor Threshold	No information available	Physical State	Liquid Aerosol
рН	No information available		

WPS-CC-019 - Touch 'n Foam Minimal Expanding Sealant White Lightning Stop Gap Minimal Expanding Insulating Foam

Flash Point	-104°C / -155°F	Autoignition Temperature	Not applicable
Decomposition temperature	No data available	Boiling Point/Range	-42°C / -44°F
Melting Point/Range	No data available		
Flammability Limits in Air	No data available	Explosion Limits	No data available
Specific Gravity	1.05	Water Solubility	Not Compatible
Solubility	Compatible.	Evaporation Rate	No data available
Vapor Pressure	No data available	Vapor Density	No data available
VOC Content	Not applicable	EPA VOC (g/l)	106
Partition Coefficient (n- octanol/water)	No data available		

10. STABILITY AND REACTIVITY

Stability

Conditions to Avoid

Incompatible Products

Hazardous Decomposition Products

Hazardous Polymerization

Stable under recommended storage conditions

Keep away from open flames, hot surfaces and sources of ignition. Temperatures above 48.8 °C / 120 °F.

Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information

Hazardous polymerization does not occur

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polymethylene polyphenylene isocyanate	49 g/kg (Rat)	9400 mg/kg (Rabbit)	490 mg/m³(Rat)4 h
Methylene bisphenyl isocyanate (MDI)	9200 mg/kg (Rat)		
Flame Retardant	500 mg/kg (Rat)	1230 mg/kg (Rabbit) 5000 mg/kg (Rat)	5 mg/L (Rat)4 h
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

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Methylene bisphenyl isocyanate (MDI)		X
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 = 295 mg/L 30 min	EC50 = 63 mg/L 48 h
	EC50 = 45 mg/L 72 h		_	_
Methylenediphenyl	EC50 = 3230 mg/L 96 h			EC50 > 1000 mg/L 24 h
diisocyanate				_

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

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). 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

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Proper Shipping Name	Consumer commodity
Hazard Class	ORM-D
Description	Consumer commodity,ORM-D,

<u>TDG</u>

DOT

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

<u>MEX</u>

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

<u>ICAO</u>

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

<u>IATA</u>

UN-No	UN1950
Proper Shipping Name	Aerosols, flammable
Hazard Class	2.1
ERG Code	10L
Description	UN1950,Aerosols, flammable,2.1

IMDG/IMO

<u>RID</u>

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Classification Code	5A
Description	UN1950 Aerosols,2,,RID
ADR/RID-Labels	2

<u>ADR</u>

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Classification Code	5A
ADR/RID-Labels	2

14. TRANSPORT INFORMATION

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 DSL	Complies 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 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
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	5-10	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).

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

International Regulations

Mexico - Grade

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 B5 Flammable aerosol D2A Very toxic materials



Chemical Name	NPRI
Methylene bisphenyl isocyanate (MDI)	Х

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Issuing Date

15-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