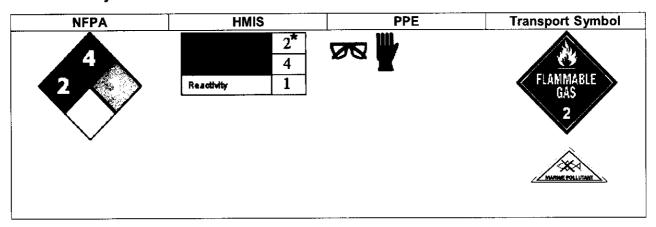


## **Material Safety Data Sheet**



Issuing Date 13-Feb-2007

Revision Date 24-Feb-12

**Revision Number 2** 

**Product Name** 

Touch 'n Foam MaxFill Maximum Expanding Sealant

Touch 'n Foam HomeSeal

Recommended Use

Insulation

Supplier Address

Convenience Products, Division of Clayton Corp.

866 Horan Drive Fenton, MO 63026-2416 TEL: (636) 349-5333

**Emergency Telephone Number** 

ChemTel 1-800-255-3924 (813) 248-0585 outside US

### WARNING!

### **Emergency Overview**

Flammable gas. May cause flash fire.

Contents under pressure. Avoid temperatures above (120F)

Irritating to eyes, respiratory system and skin.

May produce an allergic skin or respiratory reaction

Vapor reduces oxygen available for breathing. Lower oxygen levels may cause anesthetic effects.

May cause drowsiness and dizziness. Keep upwind of spill. Stay out of low areas.

Appearance Amber

Physical State Liquid Aerosol

Odor Faint hydrocarbon

Potential Health Effects

**Principle Routes of Exposure** 

Inhalation, Skin contact, Eye contact.

**Acute Toxicity** 

Eyes

Irritating to eyes. May cause slight temporary corneal injury due to adhesive character.

Skin

Prolonged skin contact may cause moderate skin irritation with local redness. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions

with susceptible persons. Will bond to skin causing irritation upon removal.

Skin Absorption

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation

Excessive exposure may cause irritation to upper respiratory tract. Symptoms of excessive exposure may be anesthetic or narcotic effects: dizziness and drowsiness may be observed. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Inhalation of vapors in high concentrations may cause shortness of breath (lung edema).

Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest.

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** 

Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI / Polymeric MDI aerosols. 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.

Birth / Developmental Effects:

In laboratory animals, MDI/Polymeric MDI did not cause birth defects; other fetal effects occurred only at high doses that were toxic to the mother.

**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.

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
Polvol 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

General Advice

If emergency warrants call 911 or emergency medical service. Show this safety data sheet to the doctor in attendance. Remove and wash soiled clothing before reuse.

Eye Contact

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. Obtain medical attention, preferably from an ophthalmologist.

Skin Contact

Remove contaminated clothing; wash before reuse. Foam will stick to skin; studies demonstrate that cleaning very soon after exposure with corn oil or nail polish remover is most effective. If foam dries on skin, apply generous amounts of petroleum jelly or lanolin, put on plastic gloves and wait 1 hour. With a clean cloth, firmly wipe off petroleum jelly and repeat process if necessary. Do not attempt to remove dried foam with solvents.

Inhalation Move victim to fresh air. Apply artificial respiration if victim is not breathing. If breathing is

difficult, oxygen should be administered by qualified personnel. Call a physician or transport to

a medical facility.

Ingestion Call a physician or Poison Control Center immediately. May produce an allergic reaction. Do

not induce vomiting unless directed to do so by medical personnel. Drink plenty of water.

Never give anything by mouth to an unconscious person.

Notes to Physician Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive

airways) symptoms. May cause respiratory sensitization or asthma-like symptoms.

Respiratory symptoms, including pulmonary edema, may be delayed. Exposure may increase "myocardial irritability". If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the

patient.

Protection of First-Aiders Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

Flammable Properties

Aerosol cans exposed to fire can rupture and spread fire to other areas. Vapors are heavier than air and may travel a long distance

and accumulate in low-lying areas.

Flash Point

-104℃ / -155℉ (based on propellant.)

Suitable Extinguishing Media

Isolate fire and deny unnecessary entry. Use an extinguishing agent suitable for type of fire. Dry chemical  ${\rm CO_2}$  water spray, fog or regular foam. Stay upwind. Keep out of low areas where gases fumes can accumulate. Damaged cylinders should be handled

only by specialists.

**Explosion Data** 

Sensitivity to mechanical impact Sensitivity to static discharge None Yes

Specific Hazards Arising from the Chemical

Propellant is flammable and will burn. Eliminate ignition sources. Ruptured cylinders may rocket. Chemicals other than propellant may burn but none ignite readily. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or

explosion do not breathe fumes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressuredemand, MSHA/NIOSH (approved or equivalent) and full protective

gear.

NEPA

Health Hazard 2

Flammability 4

Stability 1

Physical and Chemical Hazards -

HMIS

Health Hazard 2\*

Flammability 4

Stability 1

Personal Precautions B

**Personal Precautions** 

Do not touch or walk through spilled material. Use appropriate safety equipment. Evacuate area. Keep personnel out of low areas, confined or poorly ventilated areas. Keep upwind of spill. Ensure adequate ventilation. Remove all sources of ignition. No smoking in area. Only trained and properly protected personnel must be involved in clean-up operations.

Touch 'n Foam MaxFill Maximum Expanding Sealant

Touch 'n Foam HomeSeal

Methods for Containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to

evaporate. Contain spilled materials if possible without risk. Absorb with materials such as Sawdust. Dirt, Vermiculite. Collect in suitable and properly labeled open containers. Do not place in sealed containers. Curing foam gives off CO<sub>2</sub>. Wash what is left of the spill site with

large quantities water.

Methods for Cleaning Up Attempt to neutralize the spilled material by adding suitable decontaminate solution:

Formulation 1: Sodium carbonate 5-10%; liquid detergent 0.2-2%; water to make up to 100%, OR Formulation 2: concentrated ammonia solution 3-8%; liquid detergent 0.2-2%; water to make up to 100%. If ammonia formulation is used, use good ventilation to prevent

vapor exposure. Sweep up and shovel into suitable containers for disposal.

Other Information Ventilate the area. Curing foam gives off CO<sub>2</sub>. Do not put curing foam in a sealed drum.

Handling Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Ensure adequate

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Ensure adequate ventilation. Take necessary action to avoid static electricity discharge (which might cause ignition of organic propellant vapors). Keep away from open flames, hot surfaces and sources of

ignition. Do not Smoke. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Container, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. 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 in properly labeled

containers. Keep in an area equipped with sprinklers. Keep out of the reach of children. Ideal storage temperature is 16-32  $^\circ$ C / 60 – 90  $^\circ$ F. Stor age above 32  $^\circ$ C / 90  $^\circ$ F will reduce its

shelf-life. Never keep at temperatures above 48.8°C / 120°F.

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene bisphenyl isocyanate	TWA: 0.005 ppm	Ceiling: 0.02 ppm	75 mg/m³
(MDI)		Ceiling: 0.2 mg/m <sup>3</sup>	
Isobutane	TWA: 1000 ppm	N/A	N/A
Propane	TWA: 2,500 ppm	8Hr TWA: 1000 ppm	2100 ppm
'	STEL 1,000 ppm,	1,800.0 mg/m <sup>3</sup>	
	3,500 mg/m <sup>3</sup>	l i	

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 Atmospheric levels of PMDI should be maintained below the exposure guidelines. If exposure

limits are exceeded or irritation is experienced, use a NIOSH/MSHA approved air-purifying respirator equipped with an organic vapor absorbent and a particle filter. For situations where the atmospheric levels exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplied respirator. Respiratory protection must be provided in

accordance with current local regulations.

Hyglene Measures When using, do not eat, drink or smoke. Maintain regular cleaning of equipment, work area

and clothing.

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Appearance	Amber	Odor	Faint hydrocarbon
Odor Threshold	No information available	Physical State	Liquid Aerosol
рН	No information available		
Flash Point	-104℃ / -155℉ (based on propellant.)	Autoignition Temperature	Not applicable
Decomposition temperature	No data available	Boiling Point/Range	-42°C / -43.6°F
Melting Point/Range	Not applicable	Viscosity	No information available
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
Partition Coefficient (n- octanol/water)	Not applicable	EPA VOC	1.44 (lb/gal) 172.4 (g/l)

Stability	Stable under recommended storage conditions
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Temperatures above 48.8℃ / 120℉. Exposure to ele vated temperatures can cause product to decompose.
Incompatible Products	Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO $_2$ ), Nitrogen oxides (NOx), Hydrogen cyanide.

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Acute Toxicity	
Sensitization - Skin	Skin contact may cause an allergic skin reaction. Animal studies have shown that skin contact
Genditization - Okin	with isocyanates may play a role in respiratory sensitization.

Sensitization – Respiratory

May cause allergic respiratory response. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest.

Hazardous polymerization does not occur.

Occasionally, breathing difficulties may be life threatening.

**Product Information** 

**Hazardous Polymerization** 

Touch 'n Foam MaxFill Maximum Expanding Sealant Touch 'n Foam HomeSeal

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Flame retardant	26,100 mg/kg (Rat)	>10 ml/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 <sup>3</sup> (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 g/ m <sup>3</sup> (Rat) 4 h

### **Chronic Toxicity**

Chronic Toxicity Repeated or prolonged exposure may cause central nervous system damage. Tissue injury in

the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols. 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 may causes sensitization, asthma and eczemas.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Mutagenicity Contains no known mutagenetic chemicals

Reproductive Toxicity

This product does not contain any known or suspected reproductive hazards

Target Organ Effects Contains component(s) that have been reported to cause effects on the following organs in

animals: Kidney, Liver, Bone marrow.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

# This product contains a chemical that is listed as a severe marine pollutant according to DOT.

Movement & Partitioning: In the aquatic and terrestrial environment, PMDI movement is expected to be limited by its

reaction with water forming predominantly insoluble polyureas.

Persistence and Degradability:

In the aquatic and terrestrial environment, PMDI reacts with water forming predominantly installable polygroup that appear to be stable. In the atmospheric environment, material is

insoluble polyureas that appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with

related diisocyanates.

#### **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
diisocvanate				
Dimethyl ether		LC50 (goldfish) 3677 mg/L,		LC50 1852 mg/L, 96 h
		96 h		

Chemical Name	Log Pow
Flame retardant	2.59
Isobutane	2.88
	2.3
Propane	2.5

Touch 'n Foam MaxFill Maximum Expanding Sealant Touch 'n Foam HomeSeal

Chemical Name	Log Pow
Dimethyl ether	-0.18

Waste Disposal Method This material, as supplied, is not 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

DOI

**Proper Shipping Name** Consumer commodity

**Hazard Class** ORM-D

Consumer commodity, ORM-D Description

TDG

UN-No UN1950 Aerosols **Proper Shipping Name Hazard Class** 2.1

Description UN1950, Aerosols, 2.1

MEX

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

UN1950, Aerosols, 2.1 Description

**ICAO** 

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

UN1950, Aerosols Description

IATA

UN1950 **UN-No** 

Aerosols, flammable **Proper Shipping Name** 

**Hazard Class** 2.1 10L **ERG Code** 

Description UN1950, Aerosols, flammable, 2.1

IMDG/IMO

UN1950 **UN-No** Aerosols **Proper Shipping Name Hazard Class** 2.1 EmS No. F-D, S-U

UN1950, Aerosols, 2.1, Marine Pollutant (chlorinated paraffin), LTD QTY Description

RID

UN-No UN1950 Aerosols **Proper Shipping Name Hazard Class** Classification Code 5A

Description UN1950, Aerosols, 2, RID

ADR/RID-Labels

ADR

UN1950 UN-No **Proper Shipping Name** Aerosols **Hazard Class** 2 **Classification Code** 5A

ADR/RID-Labels

ADN

UN-No UN1950
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

### International Inventories

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

### **U.S. Federal Regulations**

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29CFR 1910.1200.

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals that 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.).

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

### International Regulations

Mexico - Grade

Serious risk

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= 0.02 ppm Mexico: TWA= 0.2 mg/m <sup>3</sup>
Diphenylmethane diisocyanate		Mexico: TWA= 0.005 ppm Mexico: TWA= 0.051 mg/m <sup>3</sup>

#### 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 D2B Toxic materials



Chemical Name	NPRI
Methylene bisphenyl isocyanate (MDI)	) X

Touch 'n Foam MaxFill Maximum Expanding Sealant Revision Date 24 Feb 2012

Touch 'n Foam HomeSeal

#### Legend

NPRI - National Pollutant Release Inventory

WHMIS - Workplace Hazardous Materials Information System

TSCA - Toxic Substance Control Act

DSL - Domestic Substance List

EINECS - European Inventory of Existing Commercial Chemical Substances

ENCS - Japan, Existing and New Chemical Substances

KECL- Korean Existing Chemical List

PICS - Philippine Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TDG - Transportation of Dangerous Goods Act

ICAO - International Civil Aviation Organization

IATA - International Maritime Dangerous Goods Code

IMDG - International Maritime Dangerous Goods Code

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Issuing Date 13-Feb-2007

Revision Date 24-Feb-12

Revision Note Revised by Clayton Corporation EHS Department

#### Disclalmer

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**