Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
Touch 'n Foam® MaxFill™ Maximum Expanding Sealant
Touch 'n Foam HomeSeal™

Recommended Use
Insulation

Supplier Address
Convenience Products, Division of Clayton Corp.
856 Horan Drive
Fenton, MO 63026-2416
TEL: (636) 349-5333

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

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview
Flammable gas. May cause flash fire.
Contents under pressure. Avoid temperatures above (120°F)
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
Inhalation, Skin contact, Eye contact.

Principle Routes of Exposure

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.

Issuing Date 13-Feb-2007
Revision Date 19-Aug-09
Revision Number 1
2. HAZARDS IDENTIFICATION

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

Interactions with Other Chemicals
Irritants. Sensitizers. Epoxy's. Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame retardant</td>
<td>Proprietary</td>
<td></td>
</tr>
<tr>
<td>Polymethylene polyphenylene isocyanate</td>
<td>9016-87-9</td>
<td>10-30</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>101-68-8</td>
<td>10-30</td>
</tr>
<tr>
<td>Polyl blend</td>
<td>Proprietary</td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>5-10</td>
</tr>
<tr>
<td>Methylene diphenyl diisocyanate</td>
<td>26447-40-5</td>
<td>1-5</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1-5</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>115-10-6</td>
<td>5-10</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

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 disocyanates, 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.

5. FIRE-FIGHTING MEASURES

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°C / -155°F (based on propellant.)

Suitable Extinguishing Media
Isolate fire and deny unnecessary entry. Use an extinguishing agent suitable for type of fire. Dry chemical CO₂ 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 pressure-demand, MSHA/NIOH (approved or equivalent) and full protective gear.

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. 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.
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 CO₂. 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 CO₂. Do not put curing foam in a sealed drum.

7. HANDLING AND STORAGE

Handling
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 °C / 60 – 90 °F. Stor age above 32 °C / 90 °F will reduce its shelf-life. Never keep at temperatures above 48.8 °C / 120 °F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>TWA: 0.005 ppm</td>
<td>Ceiling: 0.02 ppm, Ceiling: 0.2 mg/m³</td>
<td>75 mg/m³</td>
</tr>
<tr>
<td>Isobutane</td>
<td>TWA: 1000 ppm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Propane</td>
<td>TWA: 2,500 ppm; STEL 1,000 ppm; 3,500 mg/m³</td>
<td>8Hr TWA: 1000 ppm; 1,800.0 mg/m³</td>
<td>2100 ppm</td>
</tr>
</tbody>
</table>

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures
Shower
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.

Hygiene Measures
When using, do not eat, drink or smoke. Maintain regular cleaning of equipment, work area and clothing.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber</td>
<td>Odor</td>
<td>Faint hydrocarbon</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td>Physical State</td>
<td>Liquid Aerosol</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-104°C / -155°F (based on propellant)</td>
<td>Boiling Point/Range</td>
<td>-42°C / -43.6°F</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Not applicable</td>
<td>Explosion Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No data available</td>
<td>Water Solubility</td>
<td>Not Compatible</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.01</td>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>EPA VOC</td>
<td>1.44 (lb/gal) 172.4 (g/l)</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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. Exposure to elevated 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 (CO₂), Nitrogen oxides (NOₓ), Hydrogen cyanide.

Hazardous Polymerization
- Hazardous polymerization does not occur.

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

**Sensitization - Skin**
- Skin contact may cause an allergic skin reaction. Animal studies have shown that skin contact 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. Occasionally, breathing difficulties may be life threatening.

**Product Information**
### Chemical Names

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame retardant</td>
<td>26,100 mg/kg (Rat)</td>
<td>&gt;10 ml/kg (Rabbit)</td>
<td>5 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Polymethylene polyphenylene isocyanate</td>
<td>49 g/kg (Rat)</td>
<td>9400 mg/kg (Rabbit)</td>
<td>490 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>9200 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyol blend</td>
<td>64 mL/kg (Rat)</td>
<td>20 mL/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td></td>
<td></td>
<td>658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Methylenebiphenyl disocyanate</td>
<td>6200 mg/kg (Rabbit)</td>
<td></td>
<td>0.369 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Propane</td>
<td>658 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td></td>
<td></td>
<td>308 g/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

### 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 cause 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

### 12. ECOLOGICAL INFORMATION

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 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame retardant</td>
<td>EC50 = 4 mg/L 96 h</td>
<td>EC50 = 295 mg/L 30 min</td>
<td>EC50 = 63 mg/L 48 h</td>
<td></td>
</tr>
<tr>
<td>Methylenebiphenyl disocyanate</td>
<td>EC50 = 3230 mg/L 96 h</td>
<td></td>
<td>EC50 &gt; 1000 mg/L 24 h</td>
<td></td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>LC50 (goldfish) 3677 mg/L, 96 h</td>
<td></td>
<td>LC50 1852 mg/L, 96 h</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame retardant</td>
<td>2.59</td>
</tr>
<tr>
<td>Isobutane</td>
<td>2.68</td>
</tr>
<tr>
<td>Propane</td>
<td>2.3</td>
</tr>
</tbody>
</table>
### Chemical Name
- Dimethyl ether

<table>
<thead>
<tr>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.18</td>
</tr>
</tbody>
</table>

#### 13. DISPOSAL CONSIDERATIONS

**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

#### 14. TRANSPORT INFORMATION

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

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

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

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

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

**IMDG/IMO**
- **UN-No**: UN1950
- **Proper Shipping Name**: Aerosols
- **Hazard Class**: 2.1
- **EmS No.**: F-D, S-U
- **Description**: UN1950, Aerosols, 2.1, Marine Pollutant (chlorinated paraffin), LTD QTY

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

**ADR**
- **UN-No**: UN1950
- **Proper Shipping Name**: Aerosols
- **Hazard Class**: 2
- **Classification Code**: 5A
14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>ADR/RID-Labels</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No</td>
<td>UN1950</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Aerosols</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>2</td>
</tr>
<tr>
<td>Classification Code</td>
<td>5A</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>63, 190, 191, 277, 913</td>
</tr>
<tr>
<td>Description</td>
<td>UN1950, Aerosols, 2</td>
</tr>
<tr>
<td>Hazard Labels</td>
<td>2</td>
</tr>
<tr>
<td>Limited Quantity</td>
<td>See SP277</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>TSCA</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>CHINA</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymethylene polyphenylene isocyanate</td>
<td>9016-87-9</td>
<td>10-30</td>
<td>1.0</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>101-88-8</td>
<td>10-30</td>
<td>1.0</td>
</tr>
<tr>
<td>Methylene diphenyl diisocyanate</td>
<td>26447-40-5</td>
<td>1-5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td></td>
<td>5000 lb</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl ether</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td></td>
<td>Mexico: TWA= 0.02 ppm;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA= 0.2 mg/m³</td>
</tr>
<tr>
<td>Diphenylmethane diisocyanate</td>
<td></td>
<td>Mexico: TWA= 0.005 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA= 0.051 mg/m³</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>X</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

Issuing Date 13-Feb-2007

Revision Date 19-Aug-09

Revision Note Revised by Clayton Corporation EHS Department

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