

MATERIAL SAFETY DATA SHEET

1	PRODUCT Great Stuff																				
2	COMPOSITION																				
	<table border="1"> <thead> <tr> <th>CHEMICAL</th> <th>CAS#</th> <th>CONCENTRATION</th> <th>REGULATED¹</th> </tr> </thead> <tbody> <tr> <td>4,4-Diphenylmethane-diisocyanate (MDI)</td> <td>101-68-8</td> <td>10-30%</td> <td>Yes</td> </tr> <tr> <td>Polymeric MDI</td> <td>9016-87-9</td> <td>10-30%</td> <td>Yes</td> </tr> <tr> <td>Polyether Poly Blend</td> <td>Mixture²</td> <td>15-40%</td> <td>No</td> </tr> <tr> <td>Liquidified Petroleum Gas</td> <td>Mixture²</td> <td>10-30%</td> <td>Yes</td> </tr> </tbody> </table> <p>(1-see regulatory section for more information) (2-different raw material sources) Appearance: Off white, sticky material with a mild odor.</p>	CHEMICAL	CAS#	CONCENTRATION	REGULATED ¹	4,4-Diphenylmethane-diisocyanate (MDI)	101-68-8	10-30%	Yes	Polymeric MDI	9016-87-9	10-30%	Yes	Polyether Poly Blend	Mixture ²	15-40%	No	Liquidified Petroleum Gas	Mixture ²	10-30%	Yes
CHEMICAL	CAS#	CONCENTRATION	REGULATED ¹																		
4,4-Diphenylmethane-diisocyanate (MDI)	101-68-8	10-30%	Yes																		
Polymeric MDI	9016-87-9	10-30%	Yes																		
Polyether Poly Blend	Mixture ²	15-40%	No																		
Liquidified Petroleum Gas	Mixture ²	10-30%	Yes																		
3	<table border="1"> <tr> <td data-bbox="170 798 446 861"> HMIS: H F R PPE 2 4 1 B </td> <td data-bbox="446 724 1323 766"> HAZARDS IDENTIFICATION </td> <td data-bbox="714 724 1323 945"> CAUTION! EXTREMELY FLAMMABLE. Contents under pressure. Irritancy of Product: irritating to eyes, skin and respiratory tract. Sensitizing Properties: May cause sensitization by skin contact and inhalation. Exposure to individuals with asthma, eczema and/or allergies may aggravate existing conditions. Symptoms may include: coughing, wheezing and shortness of breath. Routes of Entry: Eye and skin contact, inhalation, ingestion. </td> </tr> </table>	HMIS: H F R PPE 2 4 1 B	HAZARDS IDENTIFICATION	CAUTION! EXTREMELY FLAMMABLE. Contents under pressure. Irritancy of Product: irritating to eyes, skin and respiratory tract. Sensitizing Properties: May cause sensitization by skin contact and inhalation. Exposure to individuals with asthma, eczema and/or allergies may aggravate existing conditions. Symptoms may include: coughing, wheezing and shortness of breath. Routes of Entry: Eye and skin contact, inhalation, ingestion.																	
HMIS: H F R PPE 2 4 1 B	HAZARDS IDENTIFICATION	CAUTION! EXTREMELY FLAMMABLE. Contents under pressure. Irritancy of Product: irritating to eyes, skin and respiratory tract. Sensitizing Properties: May cause sensitization by skin contact and inhalation. Exposure to individuals with asthma, eczema and/or allergies may aggravate existing conditions. Symptoms may include: coughing, wheezing and shortness of breath. Routes of Entry: Eye and skin contact, inhalation, ingestion.																			
4	FIRST AID MEASURES <p>EYE flush with clean, low pressure water for 15 minutes w/holding eyelids open.</p> <p>SKIN remove contaminated clothing; wash skin with soap and water.</p> <p>INHALATION remove to fresh air.</p> <p>INGESTION in case of excessive ingestion, give large amount of liquids. Do not induce vomiting. In all cases, seek additional medical attention.</p>																				
5	FIRE-FIGHTING MEASURES <p>Flash Point: -156°F (-104°C) (estimated) Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Special Protective Equipment: Self Contained Breathing Apparatus Hazardous Decomposition Products: During combustion, Carbon Monoxide and Carbon Dioxide, Nitrogen Oxides, Ammonia and trace amounts of Hydrogen Cyanide are given off.</p>																				
6	ACCIDENTAL RELEASE MEASURES <p>Provide adequate ventilation. Wear suitable personal protective clothing and equipment. Scrape up the bulk of the spill and put into a suitable waste receptacle. Avoid spreading the spill to other surfaces.</p>																				
7	HANDLING AND STORAGE <p>Protect containers from physical abuse. Avoid direct sunlight Storage temperature: 32°F-90°F (0°-32°C) DO NOT incinerate aerosol can.</p>																				
	Prepared by: M. Herosy File Name: CSM-002 Reference No. Great Stuff Date of Issue 2/98																				

MATERIAL SAFETY DATA SHEET

3)	EXPOSURE CONTROLS/PERSONAL PROTECTION EYE wear safety goggles. SKIN wear protective clothing. RESPIRATORY use only in well-ventilated areas. With insufficient ventilation, or in situations where the potential exists for exceeding the TLV, wear Self Contained Breathing Apparatus.												
3)	PHYSICAL AND CHEMICAL PROPERTIES Vapor Pres. (21°C/70°F): 4210 mmHG Specific Gravity: 1.1 VOC Content (g/L): 161.4 grams/Litre												
10)	STABILITY AND REACTIVITY Stable under normal handling and use. Avoid water contamination, open flames, alcohols, strong bases acids and ammonia. Reaction may be violent at elevated temperatures.												
11)	TOXICOLOGICAL INFORMATION Concentrations of components (Sec. 2) must be considered to determine effects of this mixture. MDI: LD ₅₀ 15gm/kg (rat); ingestion CAUTION! Contents under pressure. Irritancy of Product: Irritating to eyes, skin and respiratory tract. Sensitizing Properties: May cause sensitization by skin contact and inhalation. (Acute and Chronic) Exposure to individuals with asthma, eczema and or allergies may aggravate existing conditions. Symptoms may include: coughing, wheezing and shortness of breath. Routes of Entry: Eye and skin contact, inhalation, ingestion.												
12)	ECOLOGICAL INFORMATION Unknown												
13)	DISPOSAL INFORMATION Do not puncture or incinerate. Relieve all pressure prior to disposal. Dispose of according to federal and state regulations.												
14)	TRANSPORTATION INFORMATION Consumer Commodity ORM-D Ocean: Aerosols, Class 2, UN 1950												
15)	REGULATORY INFORMATION <table border="1" data-bbox="214 1372 1073 1510"> <thead> <tr> <th>EXPOSURE LIMITS</th> <th>TWA (8 hour), mg/m³</th> <th>SHORT TERM(10 mins), mg/m³</th> </tr> </thead> <tbody> <tr> <td>4,4-Diphenylmethane-diisocyanate (MDI)</td> <td>0.05 (0.005ppm)</td> <td>0.2 (0.02ppm) ceiling</td> </tr> <tr> <td>Propane</td> <td>1800(1000ppm)</td> <td></td> </tr> </tbody> </table>	EXPOSURE LIMITS	TWA (8 hour), mg/m ³	SHORT TERM(10 mins), mg/m ³	4,4-Diphenylmethane-diisocyanate (MDI)	0.05 (0.005ppm)	0.2 (0.02ppm) ceiling	Propane	1800(1000ppm)				
EXPOSURE LIMITS	TWA (8 hour), mg/m ³	SHORT TERM(10 mins), mg/m ³											
4,4-Diphenylmethane-diisocyanate (MDI)	0.05 (0.005ppm)	0.2 (0.02ppm) ceiling											
Propane	1800(1000ppm)												
	<table border="1" data-bbox="214 1532 991 1723"> <thead> <tr> <th>REGULATED CHEMICAL</th> <th>APPLICABLE REGULATIONS</th> </tr> </thead> <tbody> <tr> <td>4,4-Diphenylmethane-diisocyanate (MDI)</td> <td>SARA 311/312/313, CAA 1990 Toxic Air Pollutant</td> </tr> <tr> <td>Propane</td> <td>MA, NJ, PA</td> </tr> <tr> <td>Isobutane</td> <td>MA, NJ, PA</td> </tr> <tr> <td>Dimethyl Ether</td> <td>MA, NJ, PA</td> </tr> <tr> <td>PMDI</td> <td>SARA 313</td> </tr> </tbody> </table>	REGULATED CHEMICAL	APPLICABLE REGULATIONS	4,4-Diphenylmethane-diisocyanate (MDI)	SARA 311/312/313, CAA 1990 Toxic Air Pollutant	Propane	MA, NJ, PA	Isobutane	MA, NJ, PA	Dimethyl Ether	MA, NJ, PA	PMDI	SARA 313
REGULATED CHEMICAL	APPLICABLE REGULATIONS												
4,4-Diphenylmethane-diisocyanate (MDI)	SARA 311/312/313, CAA 1990 Toxic Air Pollutant												
Propane	MA, NJ, PA												
Isobutane	MA, NJ, PA												
Dimethyl Ether	MA, NJ, PA												
PMDI	SARA 313												
16)	OTHER INFORMATION This product is a polyurethane blend in the form of a solution in liquid containing by weight 50% or more polymer.												
	Prepared by: M. Herosy File Name: CSM-002 Reference No. Great Stuff Date of Issue 2/98												