

SAFETY DATA SHEET

1.0 IDENTIFICATION

- 1.1 **GHS product identifier:** LUC B
- 1.2 **Other means of identification:** Isocyanate Resin Blend
- 1.3 **Recommended use of the chemical and restrictions on use:** N/A
- 1.4 **Supplier's details:** CASS POLYMERS OF MICHIGAN, INC.
815 WEST SHEPHERD STREET
CHARLOTTE MI 48813 USA
INFORMATION PHONE: (248) 588-2270
- 1.5 **Emergency phone number:** (703) 527-3887(Call Collect)

2.0 HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance or mixture:**
Flammable Liquids 3, Skin Corrosion/Irritation 2, Eye Damage/Irritation 2B, Acute Toxicity-Inhalation 4, Sensitization – Respiratory 1, Sensitization – Skin 1
- 2.2 **GHS label elements:**



Signal Word: Warning

Hazard Statement: Flammable liquid and vapor

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection.

Response: If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: use carbon dioxide, foam, dry chemical or water fog to extinguish fire.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container by incineration under controlled conditions in accordance with all local and national laws and regulations.



Signal Word: Warning

Hazard Statement: Causes skin irritation

Prevention: Wash hands thoroughly after handling. Wear protective gloves.

Response: If on skin: wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.

Signal Word: Warning

Hazard Statement: Causes eye irritation

Prevention: Flush eyes thoroughly after eye contact.

Response: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.



Signal Word: Warning

Hazard Statement: Harmful if inhaled

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Response: If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Signal Word: Danger

Hazard Statement: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection.

Response: If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.



Disposal: Dispose of contents/container by incineration under controlled conditions in accordance with all local and national laws and regulations.



Signal Word: Warning

Hazard Statement: May cause an allergic skin reaction.

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Response: If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Disposal: Dispose of contents/container by incineration under controlled conditions in accordance with all local and national laws and regulations.

2.3 Other hazards which do not result in classification: N/A

2.4 Hazards Material Information System (United States):

Health	2*
Flammability	3
Physical Hazard	1

Hazard Codes: *=Chronic Hazard 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical Identity	CAS No.	Concentration
4,4' Diphenylmethane Diisocyanate	101-68-8	7% - 9%
Aromatic Petroleum Distillates	64742-95-6	3% - 5%
Aliphatic Hydrocarbons	8052-41-3	2% - 5%
Soda-Lime Glass	65997-17-3	60% - 65%
Polymeric MDI	9016-87-9	10% - 15%
MDI Mixed Isomers	26447-40-5	2% - 5%
Propylene Carbonate	108-32-7	<1%
Xylene	1330-20-7	0.4%

4.0 FIRST-AID MEASURES

4.1 Description of necessary first-aid measures:

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

Eyes: Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention, preferably from an ophthalmologist.

Ingestion: If swallowed, dilute with water. DO NOT INDUCE VOMITING. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

Inhalation: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Notes to Physicians: There is no specific antidote to counteract the effects of MDI. Care should be supportive and treatment should be based on the judgment of the physician in response to the reaction of the patient.

Aggravated Medical Conditions: Individuals who are sensitized to Isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyper reactivity or asthma, must avoid all exposure to Isocyanates.

Other Special Precautions: Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with MDI. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to MDI, further exposure is not permissible.

4.2 Most important symptoms/effects, acute and delayed:

Eyes: Contact with eyes causes severe irritation and corneal opacity.

Respiratory: Inhalation of MDI mists of vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure above the permissible exposure level (PEL) may result in bronchitis, bronchial spasms and pulmonary edema. Airborne overexposure well above the Permissible Exposure Limit may result in eye irritation, headache, chemical bronchitis, asthma-like symptoms, or pulmonary edema. Maintain adequate local exhaust or wear adequate personal protective equipment. Use of local exhaust and or dust/vapor respirators is recommended. Grinding, cutting or sanding of cured materials may liberate irritating dusts.

Skin: Prolonged skin contact may cause irritation.

Potential Chronic Health Effects:

Results from a lifetime inhalation study in rats indicate that MDI aerosol was carcinogenic at 6 mg/m³, the highest dose tested. This is well above the recommended TLV of 5 ppb (0.05 mg/m³). Only irritation was noted at the lower concentration of 0.2 and 1 mg/m³. No birth defects or teratogenic effects were reported in a teratology study with

rats exposed to 1, 4, and 12 mg/m³ polymeric MDI for 6 hr/day on days 6-15 of gestation. Embryo toxicity and fetotoxicity was reported at the top dose in the presence of maternal toxicity. As a result of previous repeated overexposures or a single large dose, certain individuals will develop Isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to Isocyanate at levels well below the PEL/TLV. These symptoms, which include chest tightness, wheezing, cough, shortness of breath, or asthmatic attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to Isocyanates has also been reported to cause lung damage, including a decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent. Prolonged contact with skin can cause reddening, swelling, rash, scaling, or blistering. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material, or even as a result of vapor-only exposure. Provide appropriate ventilation to maintain exposures below occupational limits. Use of a supplied air or filtering respirator is recommended where local ventilation is not adequate. See section 8-EXPOSURE CONTROLS/PERSONAL PROTECTION for exposure limits and recommended protective equipment.

4.3 Indication of immediate medical attention and special treatment needed, if necessary: N/A

5.0 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Water fog or fine spray. Carbon dioxide. Alcohol resistant foam. Dry chemical fire extinguishers.

5.2 Specific hazards arising from the chemical:

Flash Point is 40°C. May generate toxic or irritating combustion products including Nitrogen Oxides and Isocyanates. Reacts exothermically with water to form carbon dioxide gas, which may create excessive pressure in closed containers. Reacts exothermically with polyols and alcohols. Reacts exothermically and possibly violently with acids, amines and alkaline solutions.

5.3 Special protective actions for fire-fighters:

Personnel engaged in fighting Isocyanate fires must be protected against nitrogen dioxide fumes as well as Isocyanate vapors. Firefighters must wear self-contained breathing apparatus and turnout gear.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate and ventilate spill area. Dike spill to prevent entry into water system. Shut off or remove all ignition sources. Wear full protective equipment including respiratory equipment during clean up.

6.2 Methods and materials for containment and clean up:

Minor Spill: Absorb the Isocyanate with an acceptable absorbent. Shovel into open containers. Do not make pressure-tight as moisture contamination may release Carbon Dioxide, and cause container to burst. Move to a well ventilated area (outside) and neutralize with a mixture of 90% water, 3-8% ammonia and 2-7% detergent. Add at 10 to 1 ratio. Let stand for 48 hours letting evolved CO₂ escape. Proceed with final clean up of spill area.

Clean Up: Decontaminate spill area using neutralizing solution described above and let stand for at least 10 minutes.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Products based on diisocyanates like MDI and TDI should always be used in a well-ventilated area with appropriate local ventilation in such a way that the Occupational Exposure Limits (OEL) for these materials are not exceeded. It is recommended that the Diisocyanate concentration in the air be checked at regular intervals. Keep equipment clean. Use disposable containers and tools where possible. Do not eat, drink or smoke in working area.

7.2 Conditions for safe storage, including any incompatibilities:

Avoid contact of this product with water at all times during handling and storage. Store in a dry place. Products based on diisocyanates like MDI and TDI react with water liberating carbon dioxide, which can lead to excessive pressure in closed containers, and form solid insoluble polymers, which can block pipes, valves, etc. Contact with copper or copper alloys and galvanized surfaces must be avoided and valves etc made of these materials must not be used in equipment for storing and handling diisocyanates. It is recommended that stainless steel or mild steel with an appropriate lining be used, to a minimum packaging Group III standard. Do not store in open containers. Damaged or punctured drums should be emptied and properly disposed of. The recommended storage temperature is 20°C-35°C for maximum shelf life. See also technical data sheet.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS No.	Percent	Exposure Limits	Source
4,4' Diphenylmethane Diisocyanate *	101-68-8	7% - 9%	0.005ppm Threshold Weighted Average 0.02ppm Permissible Exposure Limit	ACGIH OSHA

Polymeric MDI	9016-87-9	10% - 15%	None Established	None
MDI Mixed Isomers	26447-40-5	2% - 5%	None Established	None
Aliphatic Hydrocarbons	8052-41-3	3% - 5%	100ppm Threshold Weighted Average 100ppm Threshold Limit Value	OSHA ACGIH
Xylene	1330-20-7	<0.1%	100ppm Threshold Weighted Average 100ppm Threshold Limit Value	OSHA ACGIH
Barium Sulfate	7727-43-7	7% - 10%	10 mg/m ³ TWA -Total Dust 10ppm STEL	ACGIH OSHA
Soda-Lime Glass	65997-17-3	50% - 60%	15 mg/m ³ TWA -Total Dust 10 mg/m ³ TWA -Total Dust	OSHA ACGIH

* Contains Diphenylmethane Diisocyanate (MDI). Inhalation of MDI mists or vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure above the permissible exposure level (PEL) may result in bronchitis, bronchial spasms and pulmonary edema. Long-term exposure to Isocyanates has been reported to cause lung damage, including lung damage which may be permanent. Acute or Chronic exposure may cause sensitization in some individuals, resulting in allergic reactions.

8.2 Appropriate engineering controls:

Engineering controls should be installed and regularly monitored to ensure exposure to vapor/ aerosol is minimized. Exhaust systems should be designed in accordance with work place conditions; the air should always be moved away from the source of vapor generation and the person working at this point. The odor and irritancy of this material are inadequate to warn of excessive MDI exposure. The only odor associated with this product is that of the carrier solvent, not MDI.

8.3 Individual protection measures, such as personal protective equipment:

Respiration: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved full-face air-purifying respirator. The respirator should contain an organic vapor sorbent and a particle filter. For operations such as spraying and other conditions, such as emergencies where the exposure guideline may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus.

Skin Protection: Wear overalls, boots, apron and gloves. Permeation test data indicate that the following are effective protective clothing materials: Butyl rubber. Neoprene. Nitrile/butadiene rubber. Laminated polyethylene. After work and before eating, drinking or smoking wash and clean yourself carefully with soap and water. Contaminated clothing should be washed and/or dry cleaned before re-use. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

Eye/Face Protection: Eye wash fountain should be located in immediate work area. Use splash-proof chemical goggles.

Ventilation: Use local exhaust as necessary to maintain below Permissible Exposure Limits (PEL).

Explosion Proofing: This material has a flash point of 40°C - 45°C. Take necessary grounding and safety precautions to prevent flash fire.

Other Personal Protection Data: Eyewash fountains and safety showers must be easily accessible. Maintain work area concentrations below P.E.L.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Appearance (physical state, color, etc.):** Mobile Liquid, Light Brown

9.2 **Odor:** Solvent Odor

9.3 **Odor threshold:** N/A

9.4 **pH:** Not Determined

9.5 **Melting point/freezing point:** Not Determined

9.6 **Initial boiling point and boiling range:** Not Determined

9.7 **Flash Point:** 40°C

9.8 **Evaporation rate:** N/A

9.9 **Flammability (solid, gas):** N/A

9.10 **Upper/lower flammability or explosive limits:** LFL-not determined; UFL-not determined

9.11 **Vapor pressure:** Not determined

9.12 **Vapor Density:** N/A

9.13 **Relative density(Specific Gravity):** 1.73

- 9.14 Solubility(ies):** Components are Not Readily Soluble in Water
9.15 Partition coefficient; n-octanol/water: N/A
9.16 Auto-ignition temperature: >300°C
9.17 Decomposition temperature: N/A
9.18 Viscosity: N/A

10.0 STABILITY AND REACTIVITY

- 10.1 Reactivity:** Products based on diisocyanates like MDI and TDI, react with many materials such as bases (eg. caustic soda), ammonia, primary and secondary amines, alcohols, water and acids generating heat. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of reaction partners is good or is supported by stirring or by the presence of solvents. Products based on diisocyanates such as MDI and TDI, are insoluble in, and denser than, water and sink to the bottom but react slowly at the interface. A solid water-insoluble layer of polyurea is formed with the liberation of Carbon Dioxide gas.
- 10.2 Chemical stability:** Stable under recommended storage conditions. See Section 7, Storage.
- 10.3 Possibility of hazardous reactions:** N/A
- 10.4 Conditions to avoid:** Excessive heat. Exposure to elevated temperatures can cause product to decompose.
- 10.5 Incompatible materials:** Acids. Alcohols. Amines. Bases. Strong oxidizing agents. Water. Galvanized metals. Copper and its alloys.
- 10.6 Hazardous decomposition products:** N/A

11.0 TOXICOLOGICAL INFORMATION

- 11.1 Likely routes of exposure:** Respiration of mist or vapor, Ingestion.
- 11.2 Symptoms related to the physical, chemical and toxicological characteristics:**
Ingestion: This material has a low potential for toxic effects due to ingestion.
Skin Contact: Prolonged or widespread skin contact is not likely to cause toxic effects.
Irritation:
Skin: Skin contact has caused allergic skin reactions in certain sensitized individuals.
Eyes: May cause slight temporary eye irritation with local redness. Physical contact may cause irritation and corneal opacity. Mechanical irritation possible due to solid filler materials.
Inhalation: May cause allergic respiratory response upon exposure to heated vapors. Sensitized individuals may experience allergic reactions upon brief or small exposures to vapor.
- 11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:**
Chronic Exposure:
Carcinogenicity/Reproductive Hazards:
 Results from a lifetime inhalation study in rats indicate that MDI aerosol was carcinogenic at 6 mg/m³, the highest dose tested. This is well above the recommended TLV of 5 ppb (0.05 mg/m³). Only irritation was noted at the lower concentration of 0.2 and 1 mg/m³. No birth defects or teratogenic effects were reported in a teratology study with rats exposed to 1, 4, and 12 mg/m³ polymeric MDI for 6 hr/day on days 6-15 of gestation. Embryotoxicity and fetotoxicity was reported at the top dose in the presence of maternal toxicity.
Respiratory Hazards: As a result of previous repeated overexposures or a single large dose, certain individuals will develop Isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to Isocyanate at levels well below the PEL/TLV. These symptoms, which include chest tightness, wheezing, cough, shortness of breath, or asthmatic attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to Isocyanates has also been reported to cause lung damage, including a decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent. Use of a supplied air or filtering respirator is recommended where local ventilation is not adequate.
Skin Contact: Prolonged contact can cause reddening, swelling, rash, scaling, or blistering. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material, or even as a result of vapor-only exposure. Provide appropriate ventilation to maintain exposures below occupational limits.
- 11.4 Numerical measures of toxicity:**

Ingredient Name	CAS No.	%	Test	Result	Route	Species
4,4' Diphenylmethane Diisocyanate*	101-68-8	7% - 9%	LD50	> 10,000 mg/kg	Oral	Rat
			LD50	100 mg/kg	Intraperitoneal	Mouse
			LD50	>2240 mg/m ³	Inhalation, 1hr.	Rat

* Contains Diphenylmethane Diisocyanate (MDI). Inhalation of MDI mists or vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure above the permissible exposure level (PEL) may result in bronchitis, bronchial spasms and pulmonary edema. Long-term exposure to Isocyanates has been reported to cause lung damage, including lung damage which may be permanent. Acute or Chronic exposure may cause sensitization in some individuals, resulting in allergic reactions. Do not get in eyes, on skin or on clothing. Do not breathe vapors from heated material, or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. May cause adverse effects in the aquatic environment.

12.0 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Chemical Name	CAS No.	%	Test	Concentration	Result	Species
4,4' Diphenylmethane Diisocyanate*	101-68-8	7% - 9%	LC50	>500 mg/L	LC50EC	Zebrafish
			LC50	<500 mg/L	LC50	Daphnia Magna

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented above. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits. Great Caution should be taken to prevent release to the environment. See Section 13 for further information.

12.2 Persistence and degradability:

This material contains components that show little or no evidence of biodegradability. Great Caution should be taken to prevent release to the environment. See Section 13 for further information.

12.3 Bioaccumulative potential: N/A

12.4 Mobility in soil: N/A

12.5 Other adverse effects: N/A

13.0 DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or water courses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely landfilled.

Contaminated packaging: Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container only after it has been properly emptied.

14.0 TRANSPORT INFORMATION

Land Proper Shipping Name: Liquid Plastic, NOI (Not Regulated)

Air/Rail/Sea:

14.1 UN number: UN-1993

14.2 UN proper shipping name: Flammable Liquid, NOS (Petroleum Distillates)

14.3 Transport hazard class(es): 3

14.4 Packing group, if applicable: III

14.5 Environmental hazards: N/A

14.6 Transport in bulk: N/A

14.7 Special precautions for user: N/A

15.0 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations:

SARA 313 Information: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COMPONENTS	CAS #	AMOUNT(%w/w)
4,4' Diphenylmethane Diisocyanate	101-68-8	7% - 9%
Polymeric MDI	9016-87-9	10% - 15%
Xylene, Mixed Isomers	1330-20-7	0.4%
1,2,4 trimethylbenzene	95-63-6	1.7%
Cumene	98-82-8	0.82%
Ethylbenzene	100-41-4	0.082%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA

Title III) and is considered, under applicable definitions, to meet the following categories: An immediate health hazard. A delayed health hazard

Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

The CAS number(s) for TSCA is(are):

CAS# 009016-87-9

CAS# 000101-68-8

The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

COMPONENTS	CAS #	AMOUNT(%w/w)	State List(s)
4,4' Diphenylmethane Diisocyanate	101-68-8	7% - 9%	NJ3, PA1, PA3, NJ2
Polymeric MDI	9016-87-9	10% - 15%	NJ3, PA1, PA3, NJ2
Xylene, Mixed Isomers	1330-20-7	0.4%	NJ
1,2,4 trimethylbenzene	95-63-6	1.7%	NJ, PA
Cumene	98-82-8	0.82%	NJ
Ethylbenzene	100-41-4	0.082%	NJ
Pseudocumene	95-63-6	*	NJ, PA
Benzene	71-43-2	*	CA
Toluene	108-88-3	*	CA

*- trace amounts, no percentage available

OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

COMPONENTS	CAS #	AMOUNT(%w/w)
4,4' Diphenylmethane Diisocyanate	101-68-8	7% - 9%
Xylene, Mixed Isomers	1330-20-7	0.4%
Cumene	98-82-8	0.82%
Ethylbenzene	100-41-4	0.082%

CANADA REGULATIONS

WHMIS Classification:

D2A - respiratory tract sensitizer

D2B - eye or skin irritant

D2B - skin sensitizer

Class B - Flammable

WHMIS Symbol(s)



Refer elsewhere in the MSDS for specific warnings and safe handling information.

CPR Statement

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Hazardous Products Act Information

This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS	CAS #	AMOUNT(%w/w)
4,4' Diphenylmethane Diisocyanate	101-68-8	7% - 9%
Polymeric MDI	9016-87-9	10% - 15%

Canadian Environmental Protection Act (CEPA):

All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16.0 OTHER INFORMATION

16.1 Date of Preparation: 08/29/2011

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any material is the sole responsibility of the users. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.