

Safety Data Sheet

Firestone Building Products Company

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • XR Stick™ Adhesive Part 1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company

200 4th Avenue S
Nashville, TN 37201-2208
United States

firestonemsds@bfdp.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

- CLP**
- Skin Irritation 2 - H315
 - Skin Sensitization 1 - H317
 - Eye Irritation 2 - H319
 - Acute Toxicity Inhalation 3 - H331
 - Respiratory Sensitization 1 - H334
 - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
 - Carcinogenicity 2 - H351
 - Specific Target Organ Toxicity Repeated Exposure 2 - H373
- DSD/DPD**
- Harmful (Xn)
 - Irritant (Xi)
 - Carcinogenic Substances - Category 3
 - R20, R36/37/38, R40, R42/43, R48/20

2.2 Label Elements

CLP

DANGER



- Hazard statements** • H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H335 - May cause respiratory irritation
 H351 - Suspected of causing cancer.
 H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe mist/vapours/spray.
 P264 - Wash thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P281 - Use personal protective equipment as required.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P285 - In case of inadequate ventilation wear respiratory protection.
- Response** • P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 P362 - Take off contaminated clothing and wash before reuse.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P321 - Specific treatment, see supplemental first aid information.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.
- Storage/Disposal** • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases** • R20 - Harmful by inhalation.
 R36/37/38 - Irritating to eyes, respiratory system and skin.
 R40 - Limited evidence of a carcinogenic effect.
 R42/43 - May cause sensitisation by inhalation and skin contact.
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- Safety phrases** • S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36 - Wear suitable protective clothing.
 S37 - Wear suitable gloves.
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD** • According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Skin Irritation 2
- Skin Sensitization 1A
- Eye Irritation 2
- Acute Toxicity Inhalation 2
- Respiratory Sensitization 1A
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Causes skin irritation
 - May cause an allergic skin reaction
 - Causes serious eye irritation
 - Fatal if inhaled
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 - May cause respiratory irritation
 - Causes damage to organs - Lungs through prolonged or repeated exposure

Precautionary statements

- Prevention**
- Do not breathe mist/vapours/spray.
 - Wash thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Use only outdoors or in a well-ventilated area.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Wear respiratory protection.
 - 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.
 - Immediately call a POISON CENTER or doctor/physician.
 - Specific treatment is urgent (see supplemental first aid instructions on this label).
 - If on skin: Wash with plenty of water .
 - Take off contaminated clothing and wash before reuse.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Specific treatment, see supplemental first aid information.
 - 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.
 - Get medical advice/attention if you feel unwell.

- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information**
- 45.1 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Very Toxic - D1A
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements**WHMIS****WHMIS**

- Very Toxic - D1A
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.3 Other hazards**WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients**3.1 Substances**

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polymethylene polyphenyl isocyanate	CAS:9016-87-9	< 55%	Ingestion/Oral-Rat LD50 • 49 g/kg Inhalation-Rat LC50 • 490 mg/m ³ 4 Hour(s) Skin-Rabbit LD50 • >9400 mg/kg	EU DSD/DPD: Self Classified: Xn R20-48/20 Xn R42/43 Xi, R36/37/38 Carc.Cat. 3 R40 EU CLP: Self Classified: STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; Acute Tox. 2, H330 OSHA HCS 2012: Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1A; STOT SE 3: Resp. Irrit.; Resp. Sens. 1A; STOT RE 1 (Lungs); Acute Tox. 2 (inhl)	NDA
Isocyanic acid, methylenedi-p-phenylene ester	CAS:101-68-8 EC Number:202-966-0 EU Index:615-005-00-9	38%	NDA	EU DSD/DPD: Annex VI, Table 3.2: Xn R20-48/20 Xi R36/37/38 Carc.Cat.3 R40 R42/43 EU CLP: Annex VI, Table 3.1: Carc. 2, H351; Acute Tox. 4, H332; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2; H315; Resp. Sens. 1, H334; Skin Sens. 1, H317 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Resp. Sens. 1; STOT SE 3: Resp. Irrit.; STOT RE 1 (Lungs)	NDA
Diphenylmethane diisocyanate	CAS:26447-40-5 EC Number:247-714-0 EU Index:615-005-00-9	< 10%	NDA	EU DSD/DPD: Annex VI, Table 3.2: Xn R20-48/20 Xi R36/37/38 Carc.Cat.3 R40 R42/43 EU CLP: Annex VI, Table 3.1: Carc. 2, H351; Acute Tox. 4, H332; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3: Resp Irrit., H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317 OSHA HCS 2012: Eye Irrit. 2; STOT SE 3: Resp. Irrit.; Skin Irrit. 2; Resp. Sens. 1A; Skin Sens. 1A; STOT RE 1	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately.
- Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention. Wash contaminated clothing before reuse.
- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
- Unsuitable Extinguishing Media**
- No data available.

5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Some may burn but none ignite readily.
MDI reacts exothermically with water, which may create excessive pressure in containers.
Containers may explode when heated.
- Hazardous Combustion Products**
- Carbon Dioxide, Carbon Monoxide, Nitrogen Oxide, Isocyanate Vapors and Mist, Traces of HCN

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing.
- Emergency Procedures**
- Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
Never return spills in original containers for re-use.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe vapors, dust, or spray mist, vapors, spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep material dry. Do not expose to moisture - reaction may result if exposed to moisture which may be violent. Keep container tightly closed.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Belgium	Canada Alberta	Canada British Columbia	Canada Manitoba
Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	TWAs	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	0.005 ppm TWA; 0.052 mg/m ³ TWA	0.005 ppm TWA; 0.05 mg/m ³ TWA	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))
	Ceilings	Not established	Not established	Not established	0.01 ppm Ceiling (listed under Methylene bisphenyl isocyanate (MDI))	Not established
Polymethylene polyphenyl isocyanate (9016-87-9)	TWAs	Not established	Not established	0.005 ppm TWA; 0.07 mg/m ³ TWA	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario
Diphenylmethane diisocyanate (26447-40-5)	Ceilings	Not established	0.02 ppm Ceiling; 0.2 mg/m ³ Ceiling	Not established	0.02 ppm Ceiling; 0.2 mg/m ³ Ceiling	Not established
						0.005 ppm TWA (designated substances regulation, listed)

Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	TWAs	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.051 mg/m3 TWA (listed under Methylene bisphenyl isocyanate)	Not established	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	Not established	under Isocyanates, organic compounds (Methylene bisphenyl isocyanate (MDI)); 0.005 ppm TWA (applies to workplaces to which the designated substances regulation does not apply, listed under Methylene bisphenyl isocyanate (MDI))
	Ceilings	Not established	Not established	Not established	Not established	0.02 ppm Ceiling (designated substances regulation, listed under Isocyanates, organic compounds (Methylene bisphenyl isocyanate (MDI)))

Exposure Limits/Guidelines (Con't.)

	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	China	Denmark
Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	STELs	Not established	Not established	Not established	0.1 mg/m3 STEL	Not established
	TWAs	0.005 ppm TWAEV; 0.051 mg/m3 TWAEV	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	Not established	0.05 mg/m3 TWA	0.005 ppm TWA; 0.05 mg/m3 TWA
	Ceilings	Not established	Not established	0.02 ppm Ceiling (Methylene bisphenyl isocyanate (MDI)); 0.2 mg/m3 Ceiling (Methylene bisphenyl isocyanate (MDI))	Not established	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Germany DFG	Germany TRGS	NIOSH	OSHA
Diphenylmethane diisocyanate (26447-40-5)	Ceilings	Not established	Not established	Not established	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	Ceilings	0.05 mg/m3 Peak (inhalable fraction)	Not established	0.020 ppm Ceiling (10 min); 0.2 mg/m3 Ceiling (10 min)	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
	TWAs	Not established	0.05 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, ceiling factor 2, exposure factor 1)	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m3 TWA	Not established
	MAKs	0.05 mg/m3 TWA MAK (see also polymeric MDI, inhalable fraction)	Not established	Not established	Not established
			0.05 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be		

Polymethylene polyphenyl isocyanate (9016-87-9)	TWAs	Not established	excluded when AGW and BGW values are observed, inhalable fraction, as MDI, exposure factor 1)	Not established	Not established
	Ceilings	0.05 mg/m3 Peak (inhalable fraction)	Not established	Not established	Not established
	MAKs	0.05 mg/m3 TWA MAK (inhalable fraction)	Not established	Not established	Not established

Exposure Control Notations

Germany TRGS

- Polymethylene polyphenyl isocyanate (9016-87-9): **Carcinogens:** (Category 3 (as inhalable aerosol, alveola fraction)) | **Developmental Toxins:** (Based on current data, this substance cannot be classified in categories 1-3 (as inhalable aerosol, alveoli fraction)) | **Reproductive Toxins:** (Based on current data, this substance cannot be classified in categories 1-3 (as inhalable aerosol, alveola fraction)) | **Germ Cell Mutagens:** (Based on current data, this substance cannot be classified in categories 1-3 (as inhalable aerosol, alveola fraction)) | **Skin:** (skin notation (calculated as MDI))
- Isocyanic acid, methylenedi-p-phenylene ester (101-68-8): **Carcinogens:** (Category 3 (as inhalable aerosol, alveola fraction)) | **Developmental Toxins:** (Based on current data, this substance cannot be classified in categories 1-3 (as inhalable aerosol, alveoli fraction)) | **Reproductive Toxins:** (Based on current data, this substance cannot be classified in categories 1-3 (as inhalable aerosol, alveola fraction)) | **Germ Cell Mutagens:** (Based on current data, this substance cannot be classified in categories 1-3 (as inhalable aerosol, alveola fraction))

Germany DFG

- Polymethylene polyphenyl isocyanate (9016-87-9): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to (inhalable fraction)) | **Sensitizers:** (respiratory and skin sensitizer (inhalable fraction)) | **Skin:** (skin notation)
- Isocyanic acid, methylenedi-p-phenylene ester (101-68-8): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to (inhalable fraction, see also polymeric MDI)) | **Sensitizers:** (respiratory and skin sensitizer (inhalable fraction)) | **Skin:** (skin notation)

8.2 Exposure controls

Engineering Measures/Controls

- This adhesive is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 certified respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

- Wear appropriate gloves. Wear protective clothing

Environmental Exposure Controls

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Dark brown liquid with an aromatic odor.
Color	Dark brown.	Odor	Aromatic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	>= 200 °F(>= 93.3333 °C)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.22 Water=1	Density	10.16 lbs/gal
Water Solubility	Reacts	Viscosity	30 to 50 Centipoise (cPs, cP) or mPas
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Vol.)	11 g/L EPA Method 24 VOC
Flammability			
Flash Point	220 °C(428 °F) COC (Cleveland Open Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Incompatible materials.

10.5 Incompatible materials

- Reacts with water, with the formation of carbon dioxide. Risk of bursting. Reacts with alcohols, acids, alkalis, and amines. Risk of exothermic reaction. Risk of violent reaction. Contact with certain rubbers and plastics can cause brittleness of the substance with subsequent loss in strength.

10.6 Hazardous decomposition products

- Carbon Dioxide, Carbon Monoxide, Nitrogen Oxide, Isocyanate Vapors and Mist, Traces of HCN

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Polymethylene polyphenyl isocyanate (< 55%)	9016-87-9	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 49 g/kg; <i>Behavioral:Somnolence (general depressed activity); Gastrointestinal:Hypermotility, diarrhea; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Body temperature decrease;</i> Inhalation-Rat LC50 • 490 mg/m³ 4 Hour(s); <i>Sense Organs and Special Senses:Eye:Other; Lungs, Thorax, or Respiration:Respiratory depression; Blood:Hemorrhage;</i> Skin-Rabbit LD50 • >9400 mg/kg;</p> <p>Irritation: Eye-Rabbit • 100 mg • Mild irritation;</p> <p>Reproductive: Inhalation-Rat TClO • 12 mg/m³ 6 Hour(s)(6-15D preg); <i>Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Embryo or Fetus:Extra embryonic structures; Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system</i></p>
Isocyanic acid, methylenedi-p-phenylene ester (38%)	101-68-8	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 9200 mg/kg; <i>Behavioral:Somnolence (general depressed activity); Behavioral:Ataxia; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Body temperature decrease;</i></p> <p>Irritation: Eye-Rabbit • 100 mg • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s)</p>

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Inhalation 3 - ATEmix(inhl) =0.703 mg/L OSHA HCS 2012 • Acute Toxicity - Inhalation 2 - ATEmix(inhl)=0.49 mg/L (mist)
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2
Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1A
Respiratory sensitization	EU/CLP • Respiratory Sensitizer 1 OSHA HCS 2012 • Respiratory Sensitizer 1A
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Carcinogenicity 2 OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Potential Health Effects

Inhalation

Acute (Immediate)

- Toxic if inhaled. May cause respiratory irritation.

Chronic (Delayed)

- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin

Acute (Immediate)

- Causes skin irritation. May cause skin sensitization. Symptoms include redness and skin rash.

- Chronic (Delayed)**
- No data available.
- Eye**
- Acute (Immediate)**
- Causes serious eye irritation.
- Chronic (Delayed)**
- No data available.
- Ingestion**
- Acute (Immediate)**
- Ingesting large amounts may cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.
- Chronic (Delayed)**
- No data available.
- Other**
- Chronic (Delayed)**
- Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.
- Carcinogenic Effects**
- Repeated and prolonged exposure may cause cancer.

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
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DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user • None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Diphenylmethane diisocyanate	26447-40-5	Yes	Yes	No
Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	No	No	Yes
Polymethylene polyphenyl isocyanate	9016-87-9	No	Yes	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Diphenylmethane diisocyanate	26447-40-5	Yes	No	Yes	Yes	No
Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Yes	No	Yes	Yes	No
Polymethylene polyphenyl isocyanate	9016-87-9	Yes	No	Yes	No	No

Inventory (Con't.)		
Component	CAS	TSCA
Diphenylmethane diisocyanate	26447-40-5	Yes
Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Yes
Polymethylene polyphenyl isocyanate	9016-87-9	Yes

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• Diphenylmethane diisocyanate 26447-40-5 Not Listed

• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Australia - High Volume Industrial Chemicals List

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	
• Polymethylene polyphenyl isocyanate	9016-87-9	

Australia - List of Designated Hazardous Substances - Classification

• Diphenylmethane diisocyanate	26447-40-5	Xn, Xi Carc.Cat.3 R40, R20, R48/20, R36/37/38, R42/43
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Xn, Xi Carc.Cat.3 R40, R20, R48/20, R36/37/38, R42/43
• Polymethylene polyphenyl isocyanate	9016-87-9	Xn, Xi R20, R36/37/38, R42

Environment**Australia - National Pollutant Inventory (NPI) Substance List**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	10 tonne/yr Threshold category 1
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Australia - Ozone Protection Act - Scheduled Substances

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Australia - Priority Existing Chemical Program

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Candidate chemical
• Polymethylene polyphenyl isocyanate	9016-87-9	Candidate chemical

Belgium**Labor****Belgium - Substances and Preparations - Carcinogens and Mutagens**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Bulgaria**Environment****Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	D1A, D2A, D2B
• Polymethylene polyphenyl isocyanate	9016-87-9	D1A, D2A, D2B

Canada - WHMIS - Ingredient Disclosure List

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	0.1 %
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Environment

Canada - 2004 NPRI (National Pollutant Release Inventory)

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Part 1, Group 1 Substance
• Polymethylene polyphenyl isocyanate	9016-87-9	Part 1, Group 1 Substance

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Part 1, Group 1 Substance
• Polymethylene polyphenyl isocyanate	9016-87-9	Part 1, Group 1 Substance

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Canada - CEPA - Priority Substances List

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Canada - DWQ (Drinking Water Quality) - IMACs

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Other

Canada - Accelerated Reduction/Elimination of Toxics (ARET)

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Canada New Brunswick

Environment

Canada - New Brunswick - Ozone Depleting Substances - Schedule A

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
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• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

China

Other

China - Annex I & II - Controlled Chemicals Lists

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Diphenylmethane diisocyanate	26447-40-5	Binders (listed under Certain isocyanates); Curing agents (listed under Certain isocyanates); Glues (listed under Certain isocyanates); Paints (listed under Certain isocyanates); Coatings (listed under Certain isocyanates); Molding compounds (listed under Certain isocyanates)
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Binders; Curing agents; Glues; Paints; Coatings; Molding compounds
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Diphenylmethane diisocyanate	26447-40-5	Xn; R20-48/20 Xi; R36/37/38 Carc.Cat.3; R40 R42/43
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Xn; R20-48/20 Xi; R36/37/38 Carc.Cat.3; R40 R42/43
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Diphenylmethane diisocyanate	26447-40-5	5%≤C: Xi; R:36/37/38 0.1% ≤C: R:42
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	5%≤C: Xi; R:36/37/38 0.1% ≤C: R:42
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Diphenylmethane diisocyanate	26447-40-5	Xn R:20-36/37/38-40-42/43-48/20 S:(1/2)-23-36/37-45
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Xn R:20-36/37/38-40-42/43-48/20 S:(1/2)-23-36/37-45
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Diphenylmethane diisocyanate	26447-40-5	C, 2
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	C, 2
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Diphenylmethane diisocyanate	26447-40-5	S:(1/2)-23-36/37-45
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	S:(1/2)-23-36/37-45
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany**Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Environment**Germany - TA Luft - Types and Classes**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	organic Substance: 5.2.5, Class I
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	0.10 kg/h Mass flow (Class I); 20 mg/m ³ Mass concentration (Class I)
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	ID Number 635, hazard class 1 - low hazard to waters
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• Diphenylmethane diisocyanate	26447-40-5	ID Number 8322, hazard class 1 - low hazard to waters
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	(listed under Methylene diphenyl diisocyanate)
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	5000 lb final RQ; 2270 kg final RQ
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
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• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	1.0 % de minimis concentration (listed under Chemical Category N120, Diisocyanates)
• Polymethylene polyphenyl isocyanate	9016-87-9	1.0 % de minimis concentration (listed under Chemical Category N120, Diisocyanates)
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Diphenylmethane diisocyanate	26447-40-5	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H330 - Fatal if inhaled
- H332 - Harmful if inhaled

Revision Date

- 19/January/2018

Preparation Date

- 17/February/2011

Other Information

- Changes to this revision: Updated mailing address.

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Key to abbreviations

NDA = No Data Available