

Safety Data Sheet

GenFlex Roofing Systems

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

1.1 Product identifier

Product Name • Pourable Sealer Part B

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
250 West 96th Street
Indianapolis, IN 46260
United States

genflexmsds@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 4 - H332
Respiratory Sensitization 1 - H334
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Carcinogenicity 2 - H351
Reproductive Toxicity 2 - H361
Specific Target Organ Toxicity Repeated Exposure 2 - H373

DSD/DPD • Harmful (Xn)
Irritant (Xi)
Carcinogenic Substances - Category 3
Substances Toxic To Reproduction - Category 3
R20, R36/37/38, R40, R42/43, R48/20, R62, R63

2.2 Label Elements

CLP

DANGER



- Hazard statements**
- H315 - Causes skin irritation
 - H317 - May cause an allergic skin reaction
 - H319 - Causes serious eye irritation
 - H332 - Harmful if inhaled
 - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 - H335 - May cause respiratory irritation
 - H351 - Suspected of causing cancer.
 - H361 - Suspected of damaging fertility or the unborn child.
 - 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.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P281 - Use personal protective equipment as required.
 - P285 - In case of inadequate ventilation wear respiratory protection.
- Response**
- P304+P340 - IF INHALED: 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.
 - P321 - Specific treatment, see supplemental first aid information.
 - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 - P362 - Take off contaminated clothing and wash before reuse.
 - 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.
 - R62 - Possible risk of impaired fertility.
 - R63 - Possible risk of harm to the unborn child.
- 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

DSD/DPD

hazardous.

- According to European Directive 1999/45/EC this preparation 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 - H315
Skin Sensitization 1A - H317
Eye Irritation 2A - H319
Acute Toxicity Inhalation 4 - H332
Respiratory Sensitization 1A - H334
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Reproductive Toxicity 2 - H361
Specific Target Organ Toxicity Repeated Exposure 1 - H372

2.2 Label elements**OSHA HCS 2012****DANGER**

- Hazard statements**
- Causes skin irritation - H315
May cause an allergic skin reaction - H317
Causes serious eye irritation - H319
May cause allergy or asthma symptoms or breathing difficulties if inhaled - H334
Harmful if inhaled - H332
May cause respiratory irritation - H335
Suspected of damaging fertility or the unborn child. - H361
Causes damage to organs through prolonged or repeated exposure - H372

Precautionary statements

- Prevention**
- Obtain special instructions before use. - P201
Do not handle until all safety precautions have been read and understood. - P202
Do not breathe mist/vapours/spray. - P260
Wash thoroughly after handling. - P264
Do not eat, drink or smoke when using this product. - P270
Use only outdoors or in a well-ventilated area. - P271
Contaminated work clothing should not be allowed out of the workplace. - P272
Wear protective gloves/protective clothing/eye protection/face protection. - P280
In case of inadequate ventilation wear respiratory protection. - P285
- Response**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. - P342+P311
IF ON SKIN: Wash with plenty of soap and water. - P302+P352
Specific treatment, see supplemental first aid information. - P321
If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
Take off contaminated clothing and wash before reuse. - P362
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
If eye irritation persists: Get medical advice/attention. - P337+P313
IF exposed or concerned: Get medical advice/attention. - P308+P313
Get medical advice/attention if you feel unwell. - P314
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed. - P403+P233
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

- Supplemental information**
- 2-5 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



- 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).

See Section 12 for Ecological Information.

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	25% TO 50%	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, R20-40-48/20; Xn, R42/43, Xi, R36/37/38; Carc. 3 EU CLP: Self Classified: Acute Tox. 2, H330; 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 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1A; STOT SE 3: Resp. Irrit.; Resp. Sens. 1A; STOT RE 1 (Lung); Acute Tox. 2 (Mist)	NDA
				EU DSD/DPD: Annex VI, Table 3.2: Xn; R20-48/20 Xi; R36/37/38 Carc.Cat.3; R40 R42/43	

Isocyanic acid, methylenedi-p-phenylene ester	CAS: 101-68-8 EC Number: 202-966-0	25% TO 50%	Ingestion/Oral-Rat LD50 • 9200 mg/kg Inhalation-Rat LC50 • 178 mg/m ³	EU CLP: Annex VI: Carc. 2, H351; Acute Tox. 3, H332; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H319; 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.; Acute Tox. 4 (Inhl); STOT RE 2 (Lungs)	NDA
Phthalic acid, diisodecyl ester	CAS: 26761-40-0 EINECS: 247-977-1	5% TO 20%	Ingestion/Oral-Rat LD50 • 64 g/kg Skin-Rabbit LD50 • >3160 mg/kg	EU DSD/DPD: Data Lacking EU CLP: Data Lacking OSHA HCS 2012: Data Lacking	NDA
diphenylmethane-2,4'-diisocyanate	CAS: 5873-54-1 EC Number: 227-534-9	2.5% TO 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: Acute Tox. 4, H332; STOT RE 2, H373; Eye Irrit. 2, H315; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1A; STOT SE 3: Resp. Irrit.; Resp. Sens. 1A; STOT RE 1 (Lung)	NDA
Carbon Black	CAS: 1333-86-4 EC Number: 215-609-9	<= 2.5%	Ingestion/Oral-Rat LD50 • >15400 mg/kg Skin-Rabbit LD50 • >3 g/kg	EU DSD/DPD: Self Classified: Carc. 3; R40 EU CLP: Self Classified: Carc. 2, H351 OSHA HCS 2012: Carc. 2	NDA

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

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 if symptoms occur.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

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

- Rinse out mouth and then drink plenty of water. Do NOT induce vomiting. Get medical attention immediately.

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

- CO₂, extinguishing powder or water spray. Fight larger fires with water spray. Use fire extinguishing media as appropriate for surrounding conditions.

Unsuitable Extinguishing Media

- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Containers may explode when heated or if contaminated with water. Formation of toxic gases is possible during heating or in case of fire.

Hazardous Combustion Products

- No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Move fire exposed containers if safe to do so. Cool fire exposed containers with water spray. Dike contaminated fire-control water for later disposal.

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

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
Cover spilled material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape.
Neutralization solution 1: A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.
Neutralization solution 2: A mixture of 80% water, 20% non-ionic surfactant.

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 with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing. Prevent formation of aerosols. 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 container tightly closed. Protect from atmospheric moisture. Do NOT store in containers made of copper, copper alloys, or galvanized surfaces. Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. Store in a cool, dry, well-ventilated place. Store between 10°C (50°F) and 32°C (90°F).

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
Carbon Black (1333-86-4)	TWAs	3 mg/m ³ TWA (inhalable fraction)	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	3 mg/m ³ TWA (inhalable)	3 mg/m ³ TWA (inhalable fraction)
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
Carbon Black (1333-86-4)	TWAs	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	3 mg/m ³ TWA (inhalable fraction)	3.5 mg/m ³ TWA	3 mg/m ³ TWA (inhalable)
	STELs	Not established	7 mg/m ³ STEL	Not established	7 mg/m ³ STEL	Not established
Phthalic acid, diisodecyl ester (26761-40-0)	TWAs	Not established	Not established	Not established	Not established	5 mg/m ³ TWA
Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	TWAs	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.051 mg/m ³ TWA (listed under Methylene bisphenyl isocyanate)	Not established	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	Not established	0.005 ppm TWA (designated substances regulation, listed 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	Denmark	Germany DFG
Carbon Black (1333-86-4)	TWAs	3.5 mg/m ³ TWAEV	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	Not established
	STELs	Not established	Not established	7 mg/m ³ STEL	Not established	Not established
Phthalic acid, diisodecyl ester (26761-40-0)	TWAs	Not established	Not established	Not established	3 mg/m ³ TWA	Not established
Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	TWAs	0.005 ppm TWAEV; 0.051 mg/m ³ TWAEV	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	Not established	0.005 ppm TWA; 0.05 mg/m ³ TWA	Not established
	Ceilings	Not established	Not established	0.02 ppm Ceiling (Methylene bisphenyl isocyanate (MDI)); 0.2 mg/m ³ Ceiling (Methylene bisphenyl isocyanate (MDI))	Not established	0.05 mg/m ³ Peak (inhalable fraction)
	MAKs	Not established	Not established	Not established	Not established	0.05 mg/m ³ TWA MAK (see also polymeric MDI, inhalable fraction)
Polymethylene polyphenyl isocyanate (9016-87-9)	Ceilings	Not established	Not established	Not established	Not established	0.05 mg/m ³ Peak (inhalable fraction)
	MAKs	Not established	Not established	Not established	Not established	0.05 mg/m ³ TWA MAK (inhalable fraction)

Exposure Limits/Guidelines (Con't.)

	Result	Germany TRGS	NIOSH	OSHA
Carbon Black (1333-86-4)	TWAs	Not established	3.5 mg/m ³ TWA; 0.1 mg/m ³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)	3.5 mg/m ³ TWA
diphenylmethane-2,4'-diisocyanate (5873-54-1)	TWAs	0.05 mg/m ³ TWA AGW (ceiling factor 2, exposure factor 1)	Not established	Not established
Isocyanic acid, methylenedi-p-phenylene ester (101-68-8)	Ceilings	Not established	0.020 ppm Ceiling (10 min); 0.2 mg/m ³ Ceiling (10 min)	0.02 ppm Ceiling; 0.2 mg/m ³ Ceiling
	TWAs	0.05 mg/m ³ 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/m ³ TWA	Not established
Polymethylene		0.05 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus)		

polyphenyl isocyanate (9016-87-9)	TWAs	can be excluded when AGW and BGW values are observed, inhalable fraction, as MDI, exposure factor 1)	Not established	Not established
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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)

•Phthalic acid, diisodecyl ester (26761-40-0): **Carcinogens:** (Category 3B (could be carcinogenic for man))

•Carbon Black (1333-86-4): **Carcinogens:** (Category 3B (could be carcinogenic for man, inhalable fraction))

8.2 Exposure controls

Engineering Measures/Controls

- This material 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 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear splash goggles.

Skin/Body

- Wear appropriate gloves. Wear appropriate chemical resistant 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

TWAEV = Time-Weighted Average Exposure Value

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

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Black liquid with a characteristic odor.
Color	Black	Odor	Characteristic

Odor Threshold	Data lacking		
General Properties			
Boiling Point	190 C(374 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	1.2 Water=1	Water Solubility	Insoluble
Solvent Solubility	Data lacking	Viscosity	Data lacking
Explosive Properties	Not explosive.	Oxidizing Properties:	Not an oxidizer.
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	111 C(231.8 F)	UEL	Data lacking
LEL	.4 %	Autoignition	400 C(752 F)
Flammability (solid, gas)	Not flammable.		
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 under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- MDI reacts slowly with water to form carbon dioxide gas. Reaction with water at high temperatures may be more severe, possibly rupturing sealed containers if contaminated with water.

10.4 Conditions to avoid

- Excess heat. Moisture .

10.5 Incompatible materials

- Water, amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols.

10.6 Hazardous decomposition products

- Carbon monoxide, carbon dioxide, Nitrogen oxides, Isocyanate, Hydrocarbons.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Polymethylene polyphenyl isocyanate (25% TO 50%)	9016-87-9	Acute Toxicity: orl-rat LD50:49 gm/kg; ihl-rat LC50:490 mg/m ³ /4H; skn-rbt LD50:>9400 mg/kg; Irritation: eye-rbt 100 mg MLD; Reproductive: ihl-rat TCLo:12 mg/m ³ /6H (6-15D preg)
Isocyanic acid, methylenedi-p-phenylene ester (25% TO 50%)	101-68-8	Acute Toxicity: orl-rat LD50:9200 mg/kg; Irritation: eye-rbt 100 mg MOD; skn-rbt 500 mg/24H

Phthalic acid, diisodecyl ester (5% TO 20%)	26761-40-0	Acute Toxicity: orl-rat LD50:64 gm/kg; skn-rbt LD50:>3160 mg/kg
Carbon Black (<= 2.5%)	1333-86-4	Acute Toxicity: orl-rat LD50:>15400 mg/kg; skn-rbt LD50:>3 gm/kg; Tumorigen/Carcinogen: ihl-rat TCLo:11600 ug/m3/18H/2Y-I

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Inhalation 4 OSHA HCS 2012 • Acute Toxicity - Inhalation 4
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Carcinogenicity 2 OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1A
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
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
Toxicity for Reproduction	EU/CLP • Toxic to Reproduction 2 OSHA HCS 2012 • Toxic to Reproduction 2
Respiratory sensitization	EU/CLP • Respiratory Sensitizer 1 OSHA HCS 2012 • Respiratory Sensitizer 1A
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A

Target Organs

- Lungs

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate)

- Harmful 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)

- Although swallowing this product is an unlikely means of exposure, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.

Chronic (Delayed)

- No data available

Other

- Chronic (Delayed) Carcinogenic Effects**
- Causes damage to the lungs through prolonged or repeated exposure via Inhalation.
 - May cause cancer.

Carcinogenic Effects		
	CAS	IARC
Carbon Black	1333-86-4	Group 2B-Possible Carcinogen

- Reproductive Effects**
- May cause adverse reproductive effects - such as birth defects, miscarriages or infertility based on animal data.

Key to abbreviations

- LC = Lethal Concentration MOD = Moderate
 LD = Lethal Dose TC = Toxic Concentration
 MLD = Mild

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
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 known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

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
Carbon Black	1333-86-4	Yes	Yes	Yes
diphenylmethane-2,4'-diisocyanate	5873-54-1	No	No	No
Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	No	No	Yes
Phthalic acid, diisodecyl ester	26761-40-0	No	No	No
Polymethylene polyphenyl isocyanate	9016-87-9	No	Yes	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes
diphenylmethane-2,4'-diisocyanate	5873-54-1	Yes	No	Yes	No	Yes
Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Yes	No	Yes	No	Yes
Phthalic acid, diisodecyl ester	26761-40-0	Yes	No	Yes	No	Yes
Polymethylene polyphenyl isocyanate	9016-87-9	Yes	No	No	No	Yes

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

- | | | |
|---|------------|------------|
| • Phthalic acid, diisodecyl ester | 26761-40-0 | Not Listed |
| • Carbon Black | 1333-86-4 | Not Listed |
| • Isocyanic acid, methylenedi-p-phenylene ester | 101-68-8 | Not Listed |

• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Phthalic acid, diisodecyl ester	26761-40-0	Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS Division website.)
• Carbon Black	1333-86-4	
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	D1A, D2A, D2B
• Polymethylene polyphenyl isocyanate	9016-87-9	D1A, D2A, D2B
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	1 %
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	0.1 %
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Environment

Canada - 2004 NPRI (National Pollutant Release Inventory)

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada - CEPA - Priority Substances List

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
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Canada - DWQ (Drinking Water Quality) - IMACs

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Other**Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada New Brunswick**Environment****Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Denmark**Environment****Denmark - List of Undesirable Substances - Product Groups/Function**

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• 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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Binders; Curing agents; Glues; Paints; Coatings; Molding compounds

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• 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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Xn; R20-48/20 Xi; R36/37/38 Carc.Cat.3; R40 R42/43

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• 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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	5%<=C: Xi; R:36/37/38 0.1% <=C: R:42

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• 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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Xn R:20-36/37/38-40-42/43- 48/20 S:(1/2)-23-36/37-45

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	C, 2
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	C, 2

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	S:(1/2)-23-36/37-45
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	S:(1/2)-23-36/37-45

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
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• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	organic Substance: 5.2.5, Class I

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	0.10 kg/h Mass flow (Class I); 20 mg/m3 Mass concentration

• Polymethylene polyphenyl isocyanate	9016-87-9	(Class I) Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	0.10 kg/h Mass flow (Class I); 20 mg/m3 Mass concentration (Class I)
Germany - Water Classification (VwVwS) - Annex 1		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	ID Number 1742, not considered hazardous to water
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
• Phthalic acid, diisodecyl ester	26761-40-0	ID Number 606, hazard class 1 - low hazard to waters
• Carbon Black	1333-86-4	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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

Environment

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	(listed under Methylene diphenyl diisocyanate)
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed

• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	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
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	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)
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

United States - California

Environment

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
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• Carbon Black	1333-86-4	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
• Phthalic acid, diisodecyl ester	26761-40-0	developmental toxicity, initial date 4/20/07
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Phthalic acid, diisodecyl ester	26761-40-0	2200 µg/day MADL
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

United States - Pennsylvania

Labor

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

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

• Phthalic acid, diisodecyl ester	26761-40-0	Not Listed
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• Carbon Black	1333-86-4	Not Listed
• Isocyanic acid, methylenedi-p-phenylene ester	101-68-8	Not Listed
• Polymethylene polyphenyl isocyanate	9016-87-9	Not Listed
• diphenylmethane-2,4'-diisocyanate	5873-54-1	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H330 - Fatal if inhaled

Last Revision Date

- 08/May/2014

Preparation Date

- 22/July/2011

Disclaimer/Statement of Liability

- The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

Key to abbreviations

NDA = No Data Available