

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 • **FillGard™ M Pourable Sealer**

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

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 EU Directive 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
- 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, R52/53

2.2 Label Elements

CLP

DANGER



- Hazard statements**
- H315 - Causes skin irritation
 - H317 - May cause an allergic skin reaction
 - H319 - Causes serious eye irritation
 - 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.
 - 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.
 - R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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 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
Respiratory Sensitization 1A - H334
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
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
May cause respiratory irritation - H335
Causes damage to organs through prolonged or repeated exposure. - H372

Precautionary statements

- Prevention**
- 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
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

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

- Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements**WHMIS**

- 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

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Diphenylmethane diisocyanate	CAS: 26447-40-5 EC Number: 247-714-0	20% TO 30%	NDA	EU DSD/DPD: Annex I - Carc. Cat. 3; R40; Xn; R20-48/20; Xi; R36/37/38;R42/43 EU CLP: Annex VI - Carc. 2, H351; Acute Tox. 4 , H332; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3, 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
Diphenylmethane diisocyanate	CAS: 39310-05-9	< 2%	NDA	EU DSD/DPD: Self Classified - Xn, R42 EU CLP: Self Classified - Resp. Sens. 1, H334 OSHA HCS 2012: Resp. Sens. 1	NDA
Phosphoric acid, triethyl ester	CAS: 78-40-0 EC Number: 201-114-5	< 0.5%	Ingestion/Oral-Rat LD50 • 1165 mg/kg	EU DSD/DPD: Annex I - Xn R22 EU CLP: Annex VI - Acute Tox 4, H302 OSHA HCS 2012: Eye Irrit 2; Skin Irrit. 2A; STOT SE 3; Resp. Irrit; Acute Tox 4, Oral	NDA
2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	CAS: 25973-55-1 EINECS: 247-384-8	< 0.25%	NDA	EU DSD/DPD: Self Classified - Xn R48/22, R53 EU CLP: Self Classified - STOT RE 2, H373; Aquatic Chronic 4 OSHA HCS 2012: STOT RE 2	NDA
Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	CAS: 41556-26-7 EINECS: 255-437-1	< 0.25%	NDA	EU DSD/DPD: Self Classified - Xi, R43; N, R50/53 EU CLP: Self Classified - Skin Sens. 1, H317; Aquatic Acute 1, H400 OSHA HCS 2012: Skin Sens. 1	NDA

Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	CAS:1760-24-3 EINECS:217-164-6	< 0.25%	Ingestion/Oral-Rat LD50 • 2413 mg/kg	EU DSD/DPD: Self Classified - Xn, R20, Xi, R41, R43, N, R51/53 EU CLP: Self Classified - Acute Tox. 4, H332; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 2, H411 OSHA HCS 2012: Eye Dam. 1; Skin Sens. 1	NDA
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See Section 11 for Toxicological Information.

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.

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

- Do not use mouth-to-mouth method if victim ingested the substance.

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 • Carbon dioxide, dry chemical, dry sand, alcohol-resistant foam. If water is used, use in very large quantities. The reaction between water and hot isocyanate may be vigorous.

Unsuitable Extinguishing Media

- None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Under intense heat material can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Violent reaction with alcohols. Avoid water contamination in closed containers which may cause rupture (carbon dioxide is evolved). Do not reseal contaminated containers as pressure buildup may rupture them.

Hazardous Combustion Products

- Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, hydrogen cyanide, isocyanates, and various hydrocarbons.

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).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Evacuate the area and contain spill. Clean-up should only be performed by trained personnel. Prevent further leakage, spillage or entry into drains. Absorb with sawdust or other absorbent material and shovel into acceptable container. Dispose of waste in approved landfill. People dealing with major spills should wear full protective clothing including a full-face supplied air respirator. Surfaces may become slippery after a spill; so caution must be used to prevent injury from slips and falls.

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. Do not breathe. Do not expose unmixed material to water. If product becomes contaminated, do not reseal. Formation of toxic gases is possible during heating or in case of fire. Keep away from ignition sources. Fumes can combine with air to form an explosive mixture. Relieve pressure slowly when opening container. Avoid contact with eyes and skin. Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a well-ventilated place. Keep container tightly closed. Store in original containers. Keep away from water as reaction can be initiated by water exposure.

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

- No exposure limits/guidelines available for the material or the components.

8.2 Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Safety shower and eye wash in immediate area of use is recommended.

Personal Protective Equipment Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved

respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Use safety glasses with side shields or chemical tight goggles; full-face shield in addition if splashing is possible.

Skin/Body

- Wear appropriate gloves. Neoprene, nitrile or butyl rubber gloves may be necessary to avoid direct skin contact.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

MSHA = Mine Safety and Health Administration

NIOSH = National Institute of Occupational Safety and Health

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Part A: Straw-colored viscous liquid with faint odor. Part B: Black viscous liquid with negligible odor.
Color	Part A: Straw-colored; Part B: Black.	Odor	Part A: Faint odor; Part B: negligible odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Insoluble Reacts with water (Part A)
Solvent Solubility	Data lacking	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	0.1 hPa	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	> 200 F(> 93.3333 C) PMCC (Pensky-Martins Closed Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
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

- Reacts with water/moisture, producing carbon dioxide (pressure). Reacts with any material containing an active hydrogen group, causing an exothermic reaction.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Polymerization may occur from contact with water, alcohols, glycols, alkalies, tertiary amines, metal products, and other materials containing active hydrogen.

10.4 Conditions to avoid

- Avoid any type contamination. Avoid contact with water.

10.5 Incompatible materials

- Avoid contact with alcohols, bases, acids, tertiary amines and metal compounds.

10.6 Hazardous decomposition products

- None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Phosphoric acid, triethyl ester (< 0.5%)	78-40-0	Acute Toxicity: orl-rat LD50:1165 mg/kg; Irritation: eye-rbt 100 mg MOD; Reproductive: orl-rat TDLo:57 gm/kg (92D pre/1-22D preg)
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- (< 0.25%)	1760-24-3	Acute Toxicity: orl-rat LD50:2413 mg/kg; skn-rat LD50:>2009 mg/kg; Irritation: eye-rbt 15 mg SEV; skn-rbt 500 mg open MLD
GHS Properties	Classification	
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met	
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 • Classification criteria not met OSHA HCS 2012 • Classification criteria not met	
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
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Route(s) of entry/exposure	<ul style="list-style-type: none"> Inhalation, Skin, Eye
Medical Conditions Aggravated by Exposure	<ul style="list-style-type: none"> Individuals with skin allergies or eczema, those who are sensitized to Isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperactivity or asthma.
Potential Health Effects	
Inhalation	
Acute (Immediate)	<ul style="list-style-type: none"> May cause respiratory irritation.
Chronic (Delayed)	<ul style="list-style-type: none"> Vapors can induce respiratory allergic sensitization with asthma-like symptoms. Symptoms include chronic cough, tightness of chest with difficulty in breathing. These symptoms may be immediate or delayed up to several hours after exposure.
Skin	
Acute (Immediate)	<ul style="list-style-type: none"> Causes skin irritation. May cause an allergic skin reaction.
Chronic (Delayed)	<ul style="list-style-type: none"> Prolonged contact can cause reddening, swelling, rash, scaling, and blistering.
Eye	
Acute (Immediate)	<ul style="list-style-type: none"> Causes serious eye irritation.
Chronic (Delayed)	<ul style="list-style-type: none"> No data available.
Ingestion	
Acute (Immediate)	<ul style="list-style-type: none"> No data available
Chronic (Delayed)	<ul style="list-style-type: none"> No data available.
Other	
Chronic (Delayed)	<ul style="list-style-type: none"> Causes damage to organs through prolonged or repeated exposure.
Carcinogenic Effects	<ul style="list-style-type: none"> The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Key to abbreviations

LD	= Lethal Dose
MLD	= Mild
MOD	= Moderate
SEV	= Severe

Section 12 - Ecological Information

12.1 Toxicity

FillGard™ M Pourable Sealer					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
= 11 mg/L	Algae: NDA	96 Hour(s)	EC50	NDA	Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-
= 90 mg/L	Crustacea: Daphnia	48 Hour(s)	EC50	NDA	Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-
= 200 mg/L	Fish: NDA	96 Hour(s)	LC50	NDA	Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-
> 100 mg/L	Crustacea: Daphnia	24 Hour(s)	EC50	NDA	2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole
> 10 mg/L	Algae: NDA	72 Hour(s)	IC50	NDA	2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole
> 100 mg/L	Fish: NDA	96 Hour(s)	LC50	NDA	2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole
= 20 mg/L	Crustacea: Daphnia	24 Hour(s)	EC50	NDA	Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate
> 100 mg/L	Other: Bacteria	3 Hour(s)	EC50	NDA	Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate

= 0.97 mg/L	Fish: NDA	96 Hour(s)	LC50	NDA	Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate
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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
Diphenylmethane diisocyanate	26447-40-5	No	No	No
Diphenylmethane diisocyanate	39310-05-9	No	No	No
Phosphoric acid, triethyl ester	78-40-0	No	No	No
2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	No	No	No
Bis(1-2,2,5,6-pentamethyl-4-piperdiny) decanoate	41556-26-7	No	No	No
Ethylenediamine, N-(3-(trimethoxysilyl) propyl)-	1760-24-3	No	No	No

Inventory					
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS
Diphenylmethane diisocyanate	26447-40-5	Yes	No	Yes	No
Diphenylmethane diisocyanate	39310-05-9	Yes	No	No	No
Phosphoric acid, triethyl ester	78-40-0	Yes	No	Yes	No
2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	Yes	No	Yes	No
Bis(1-2,2,5,6-pentamethyl-4-piperdiny) decanoate	41556-26-7	Yes	No	Yes	No
Ethylenediamine, N-(3-(trimethoxysilyl) propyl)-	1760-24-3	Yes	No	Yes	No

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Diphenylmethane diisocyanate 39310-05-9 < 2% Not Listed
- Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- 1760-24-3 < 0.25% Not Listed
- 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole 25973-55-1 < 0.25% Not Listed
- Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate 41556-26-7 < 0.25% Not Listed
- Phosphoric acid, triethyl ester 78-40-0 < 0.5% Not Listed
- Diphenylmethane diisocyanate 26447-40-5 20% TO 30% Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

Environment**Canada - CEPA - Priority Substances List**

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Xn; R22
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	5%<=C: Xi; R36/37/38 0.1%<=C: R42

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed

- | | | | |
|-----------------------------------|------------|------------|---|
| • Phosphoric acid, triethyl ester | 78-40-0 | < 0.5% | Xn R:22 S:(2)-25 |
| • Diphenylmethane diisocyanate | 26447-40-5 | 20% TO 30% | 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

- | | | | |
|---|------------|------------|------------|
| • Diphenylmethane diisocyanate | 39310-05-9 | < 2% | Not Listed |
| • Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- | 1760-24-3 | < 0.25% | Not Listed |
| • 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole | 25973-55-1 | < 0.25% | Not Listed |
| • Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate | 41556-26-7 | < 0.25% | Not Listed |
| • Phosphoric acid, triethyl ester | 78-40-0 | < 0.5% | Not Listed |
| • Diphenylmethane diisocyanate | 26447-40-5 | 20% TO 30% | C, 2 |

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

- | | | | |
|---|------------|------------|---------------------|
| • Diphenylmethane diisocyanate | 39310-05-9 | < 2% | Not Listed |
| • Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- | 1760-24-3 | < 0.25% | Not Listed |
| • 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole | 25973-55-1 | < 0.25% | Not Listed |
| • Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate | 41556-26-7 | < 0.25% | Not Listed |
| • Phosphoric acid, triethyl ester | 78-40-0 | < 0.5% | S:(2)-25 |
| • Diphenylmethane diisocyanate | 26447-40-5 | 20% TO 30% | S:(1/2)-23-36/37-45 |

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

- | | | | |
|---|------------|------------|------------|
| • Diphenylmethane diisocyanate | 39310-05-9 | < 2% | Not Listed |
| • Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- | 1760-24-3 | < 0.25% | Not Listed |
| • 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole | 25973-55-1 | < 0.25% | Not Listed |
| • Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate | 41556-26-7 | < 0.25% | Not Listed |
| • Phosphoric acid, triethyl ester | 78-40-0 | < 0.5% | Not Listed |
| • Diphenylmethane diisocyanate | 26447-40-5 | 20% TO 30% | Not Listed |

U.S. - OSHA - Specifically Regulated Chemicals

- | | | | |
|---|------------|------------|------------|
| • Diphenylmethane diisocyanate | 39310-05-9 | < 2% | Not Listed |
| • Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- | 1760-24-3 | < 0.25% | Not Listed |
| • 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole | 25973-55-1 | < 0.25% | Not Listed |
| • Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate | 41556-26-7 | < 0.25% | Not Listed |
| • Phosphoric acid, triethyl ester | 78-40-0 | < 0.5% | Not Listed |
| • Diphenylmethane diisocyanate | 26447-40-5 | 20% TO 30% | Not Listed |

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

- | | | | |
|--------------------------------|------------|------|------------|
| • Diphenylmethane diisocyanate | 39310-05-9 | < 2% | Not Listed |
|--------------------------------|------------|------|------------|

• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed

- Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate 41556-26-7 < 0.25% Not Listed
- Phosphoric acid, triethyl ester 78-40-0 < 0.5% Not Listed
- Diphenylmethane diisocyanate 26447-40-5 20% TO 30% Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- Diphenylmethane diisocyanate 39310-05-9 < 2% Not Listed
- Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- 1760-24-3 < 0.25% Not Listed
- 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole 25973-55-1 < 0.25% Not Listed
- Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate 41556-26-7 < 0.25% Not Listed
- Phosphoric acid, triethyl ester 78-40-0 < 0.5% Not Listed
- Diphenylmethane diisocyanate 26447-40-5 20% TO 30% Not Listed

United States - California

Environment

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

- Diphenylmethane diisocyanate 39310-05-9 < 2% Not Listed
- Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- 1760-24-3 < 0.25% Not Listed
- 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole 25973-55-1 < 0.25% Not Listed
- Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate 41556-26-7 < 0.25% Not Listed
- Phosphoric acid, triethyl ester 78-40-0 < 0.5% Not Listed
- Diphenylmethane diisocyanate 26447-40-5 20% TO 30% Not Listed

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

- Diphenylmethane diisocyanate 39310-05-9 < 2% Not Listed
- Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- 1760-24-3 < 0.25% Not Listed
- 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole 25973-55-1 < 0.25% Not Listed
- Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate 41556-26-7 < 0.25% Not Listed
- Phosphoric acid, triethyl ester 78-40-0 < 0.5% Not Listed
- Diphenylmethane diisocyanate 26447-40-5 20% TO 30% Not Listed

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

- Diphenylmethane diisocyanate 39310-05-9 < 2% Not Listed
- Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- 1760-24-3 < 0.25% Not Listed
- 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole 25973-55-1 < 0.25% Not Listed
- Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate 41556-26-7 < 0.25% Not Listed
- Phosphoric acid, triethyl ester 78-40-0 < 0.5% Not Listed
- Diphenylmethane diisocyanate 26447-40-5 20% TO 30% Not Listed

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

- Diphenylmethane diisocyanate 39310-05-9 < 2% Not Listed
- Ethylenediamine, N-(3-(trimethoxysilyl)propyl)- 1760-24-3 < 0.25% Not Listed

• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

United States - Pennsylvania

Labor

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

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

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

United States - Rhode Island

Labor**U.S. - Rhode Island - Hazardous Substance List**

• Diphenylmethane diisocyanate	39310-05-9	< 2%	Not Listed
• Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	< 0.25%	Not Listed
• 2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole	25973-55-1	< 0.25%	Not Listed
• Bis(1-2,2,5,6-pentamethyl-4-piperdiny)decanoate	41556-26-7	< 0.25%	Not Listed
• Phosphoric acid, triethyl ester	78-40-0	< 0.5%	Not Listed
• Diphenylmethane diisocyanate	26447-40-5	20% TO 30%	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H302 - Harmful if swallowed
- H318 - Causes serious eye damage
- H332 - Harmful if inhaled
- H400 - Very toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects
- H413 - May cause long lasting harmful effects to aquatic life
- R22 - Harmful if swallowed.
- R41 - Risk of serious damage to eyes.
- R42 - May cause sensitisation by inhalation.
- R43 - May cause sensitisation by skin contact.
- R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Last Revision Date

- 09/May/2013

Preparation Date

- 18/October/2011

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Key to abbreviations

NDA = No Data Available