

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

Substance name : Crosslinker B

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

Use of the substance/mixture : Crosslinker for coatings

#### 1.3. Details of the supplier of the safety data sheet

Company identification : Coatings2Go  
399 Concord Street  
Carlisle MA, 01741 - USA  
T 1-978-369-7411 - F 978-371-9940  
[info@coatings2go.com](mailto:info@coatings2go.com) - [COATINGS2GO.COM](http://COATINGS2GO.COM)

#### 1.4. Emergency telephone number

Emergency number : 1-978-369-7411

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

Class	Category	Hazard Statements
H319 Eye Irritant	Category 2A	
H317 Skin Sensitizer	Category 1	
H360 Reproductive toxicity	Category 1B	
H335 STOT - Single exposure, (Respiratory)	Category 3	
H332 Acute Toxicity (inhalation)	Category 4	
H227 Flammable liquids	Category 4	

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms:



GHS07



GHS308

Signal word : Danger

Hazard statements:

:  
:  
: H319 - Causes serious eye irritation  
: H317 - May cause an allergic skin reaction  
: H360 - May damage fertility or the unborn child  
: H335 - May cause respiratory irritation  
: H332 - Harmful if inhaled  
: H227 - Combustible Liquid

Precautionary statements

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P280 - Wear protective gloves, protective clothing, eye protection and face shield if splashing is a possibility  
P202 - Do not handle until all safety precautions have been read and understood  
P201 - Obtain special instructions before use  
P264 - Wash exposed surfaces thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray  
Response : P281 - Use personal protective equipment as required  
P302 + P352 - If on skin: Wash with plenty of soap and water  
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308 + P313 - If exposed or concerned: Get medical advice/attention  
P312 - Call a a POISON CENTER, a doctor if you feel unwell  
P321 - Specific treatment (see first aid section of this SDS and first aid instructions on this label)  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse.

# Crosslinker B

## Safety Data Sheet

- : P370 + P378 - In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction
- Storage : P403 + P235 – Store in a well ventilated place and keep cool  
: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
: P405 - Store locked up
- Disposal : P501 - Dispose of contents/container to approved facility in accordance with local/regional/national regulations

### 2.3. Other hazard

Other hazards : No additional information available

### 2.4. Ingredients of unknown acute toxicity

No data available

## SECTION: 3. Composition/information on ingredients

### 3.1. Substances

Substance type : Multi-constituent, Polymer  
Name : Crosslinker B

N	Product identifier	%	GHS-US classification
1,6-Diisocyanatohexane homopolymer (Main constituent)	(CAS No) 28182-81-2	30-50	Skin Sens. Category 1 Acute Toxicity Category 4 (inhalation) STOT-SE Category 3 (respiratory)
N-methyl-2-pyrrolidone (Constituent)	(CAS No) 872-50-4	<= 50	Flam. Liq. 4, Eye Irrit. 2A, Repr. 1B
Polyisocyanate based on HDI (Constituent)	(CAS No) 125252-47-3	4-9	Acute Toxicity. Category 4 (inhalation) Skin Sens. Category 1 STOT-SE Category 3 (respiratory)
Hexamethylene-diisocyanate (Constituent)	(CAS No) 822-06-0	<0.1	Acute Toxicity Category 1 (Inhalation) Acute Toxicity Category 4 (oral) Skin Corr. Category 1 Eye Irrit. Category 1 Resp. Sens. Category 1 Skin Sens. Category 1 STOT SE Category 3 (respiratory)

The specific chemical identity and/or exact percentages have been withheld as a trade secret.

### 3.2. Mixtures

Not applicable

## SECTION: 4. First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
- First-aid measures after inhalation : Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash skin with plenty of water and soap (for at least 15 minutes). Wash contaminated clothing before reuse. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops and persists
- First-aid measures after eye contact : Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel. Remove contact lenses, if present and easy to do. Continue rinsing
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention

### 4.2. Most important symptoms and effects, both acute and chronic

- Symptoms/injuries : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Pre-existing skin disorders may be aggravated by over-exposure to this product
- Symptoms/injuries after inhalation : May be harmful if inhaled. Causes respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Persons with pre-existing respiratory ailments may respond to concentrations well below exposure guidelines with asthma-like symptoms. Exposure well above exposure guidelines may lead to bronchitis, bronchial spasms and pulmonary edema. Chemical or hypersensitivity pneumonitis with flu-like symptoms have also been reported. Symptoms can be delayed up to several hours after exposure. These effects are usually reversible. Sensitization may be permanent
- Symptoms/injuries after skin contact : A component of this product has been shown to be a skin sensitizer. Prolonged skin contact can cause reddening, swelling, rash and in some cases, skin sensitization
- Symptoms/injuries after eye contact : Causes irritation with symptoms of reddening, tearing, stinging and swelling. May cause temporary corneal injury. Vapor may cause irritation with symptoms of burning and tearing.

# Crosslinker B

## Safety Data Sheet

- Symptoms/injuries after ingestion : May cause irritation of gastrointestinal tract. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea
- Chronic symptoms : As a result of previous repeated overexposure or a single large dose, certain individuals may develop sensitization to diisocyanates or polyisocyanates. This respiratory sensitization presents as asthma-like symptoms. Extreme asthmatic reactions can be life-threatening. Prolonged skin contact can cause reddening, swelling, rash and in some cases, skin sensitization. Animal tests indicate that skin contact with diisocyanates play a role in isocyanate sensitization and respiratory reaction. Prolonged vapor contact may cause conjunctivitis

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. INHALATION: An individual having dermal or pulmonary sensitization reaction to this product should be removed from further exposure to any isocyanate. SKIN: This product is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. EYES: Stain for evidence of corneal injury. If cornea is burned instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal injury impairing vision. INGESTION: There is no specific antidote. Do not induce vomiting. Compound is irritating to gastrointestinal tract

## SECTION: 5. Fire-fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), water spray.

### 5.2. Special or specific hazards arising from the substances or mixture

- Fire hazard : Closed container may rupture under extreme heat or when contents are contaminated with water. Water may be used to cool closed containers to prevent pressure build-up
- Explosion hazard : Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot isocyanate can be vigorous. Carbon dioxide is formed when product is contaminated with water
- Reactivity : Reacts slowly with water to liberate carbon dioxide gas. Reaction is accelerated with heat
- General measures : No additional information

### 5.3. Equipment, precautions and advice for fire-fighters

- Firefighting instructions : Cool tightly closed containers exposed to fire with water
- Protection during firefighting : Wear self-contained breathing apparatus with full facepiece and full protective clothing. Avoid contact with skin, eyes, or clothing. Decontaminate equipment and protective clothing prior to reuse
- Other information : During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion.

## SECTION: 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate unnecessary personnel. Remove ignition sources. Ventilate area
- 6.1.1. For non-emergency personnel**
- Protective equipment : No additional information available
- Emergency procedures : No additional information available
- 6.1.2. For emergency responders**
- Protective equipment : Wear skin, eye and respiratory protection during cleanup
- Emergency procedures : Evacuate non-emergency personnel. Evacuate and isolate spill area. Eliminate ignition sources. Ventilate area. Call Chemtrec at 800-424-9300 or 703-527-3887 for assistance and advice

### 6.2. Environmental precautions

Control source of leak. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams

### 6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams
- Methods for cleaning up : Large spills: (Standing liquid): To minimize vapor, cover the spillage with fire fighting foam. Released material may be pumped into closed, but not sealed, metal container for disposal. Pump any free liquid into a closed but not sealed container to allow for the escape of any carbon dioxide that forms. Sealing the container may lead to rupture as any contaminated isocyanate reacts. Process can generate heat. Small spills: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Saturate absorbent material with neutralization solution and mix. Neutralization solution: 75% water, 20% non-ionic surfactant (e.g. Tergitol TMN-10, Plurafac SL-62 or other) and 5% n-propyl alcohol. Or 90% water, 3-8% ammonium hydroxide or concentrated ammonia and 2% liquid detergent. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent, until the surface is decontaminated. Allow all waste containers to vent for 72 hours to let carbon dioxide escape
- Other information : No additional information available

### 6.4. References to other sections

No additional information available

## SECTION: 7. Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Use personal protective equipment as described in Section 8. Avoid contact with skin, eyes, or clothing. Provide adequate ventilation. Avoid breathing vapors or aerosols. In case of inadequate ventilation wear respiratory protection. Wash thoroughly after handling
- Hygiene measures : Do not eat, drink or smoke when using this product. Eyewash station and safety shower required in work area. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse

# Crosslinker B

## Safety Data Sheet

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected
Storage conditions	: Store in a cool, well-ventilated place. Keep container tightly closed and dry. Protect from moisture. Store separate from food products
Incompatible materials	: Amines, alcohols, strong bases, water, copper alloys
Maximum storage period	: 6 months after receipt of material by customer
Storage temperature	: 20 - 50 °C
Storage area	: Store tightly closed in a dry, cool and well-ventilated place

### 7.3. Handling and storage information regarding specific end uses

No additional information available

## SECTION: 8. Exposure controls/personal protection

### 8.1. Exposure limits and guidelines / control parameters

#### Crosslinker B

Not Established- See Exposure Limits for individual components listed.

#### Hexamethylene-di-isocyanate (822-06-0)

USA ACGIH TWA (ppm) 0.005 ppm

#### 1,6-Diisocyanatohexane homopolymer (28182-81-2)

Supplier Exposure Guideline: STEL 1 mg/m<sup>3</sup> (15 min)

#### N-methyl-2-pyrrolidone (872-50-4)

USA ACGIH TWA (ppm) 10 ppm

USA ACGIH Remark : Can be absorbed through the skin

#### Polyisocyanate based upon HDI (125252-47-3)

Supplier Exposure Guideline: STEL 1 mg/m<sup>3</sup> (15 min)

### Any other limits used or recommended by chemical manufacturer, importer, or SDS preparers:

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

### 8.2. Engineering controls

Appropriate engineering controls	: Because specific work environments and material handling procedures vary, safety procedures should be developed for each intended application. Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective occupational exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent emissions into the workplace. Improperly vented ovens may release monomeric HDI into workplace
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### 8.3. Individual protection measures

Personal protective equipment (PPE)	: Insufficient ventilation: wear respiratory protection. On heating: wear respiratory equipment
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Hand protection	: Consult glove manufacturer for suitability for the specific workplace. Neoprene rubber (HNBR) Nitrile rubber (NBR) / Butyl rubber (IIR)
Eye protection	: Chemical safety goggles. Face shield if splashing is possible
Skin and body protection	: Avoid all skin contact. Cover as much exposed skin area as possible wearing appropriate clothing to prevent skin contact. Wear gloves, long-sleeved shirt and pants
Respiratory protection	: Observe OSHA regulations for respirator use (29 CFR 1910.134). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Consult respiratory device supplier's product information for the selection of the appropriate device. Follow respirator manufacturer's recommendations for respirator use in isocyanate-containing environments. Air monitoring must be performed to measure air concentrations of HDI monomer and HDI polyisocyanate before using an air-purifying respirator. Air-purifying or fresh air-supplied respirators may be necessary for spray applications or high temperature use which may produce inhalation exposure. Full-face supplied air respirators are required for work areas where isocyanate airborne concentrations have not been characterized or are expected to exhibit considerable and sudden variations such as in spray applications

# Crosslinker B

## Safety Data Sheet

### 8.4. Other controls and information

Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Other information	: Do not eat, drink or smoke when using this product. Eyewash station and safety shower required in work area.

## SECTION: 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous
Color	: Light yellow
Odor	: Odorless
Odor threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ~ 196 °F (based on constituent N-methyl-2-pyrrolidone )
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 5.2 x -109 mm Hg HDI Polyisocyanate @ 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.16 g/cm <sup>3</sup> @ 25oC
Solubility	: Insoluble in water. Reacts slowly with water to liberate carbon dioxide gas.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ~ 3000 mPa.s @ 23°C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available.

## SECTION: 10. Stability and reactivity

### 10.1. Reactivity

Reacts slowly with water to liberate carbon dioxide gas. Reaction is accelerated with heat.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

No additional information available.

### 10.4. Conditions to avoid

Heat. Moisture. Open flame. Sparks. Keep from freezing.

### 10.5. Incompatible materials

Water, amines, strong bases, alcohols, copper alloys

### 10.6. Hazardous decomposition products

Under fire and high heat conditions: dense black smoke. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. hydrogen cyanide, isocyanate, isocyanic acid, other undetermined compounds.

## SECTION: 11. Toxicological information

### 11.1 Information on toxicological effects

#### Crosslinker B

No data Available for the product.

#### Hexamethylene-di-isocyanate (822-06-0)

Acute Oral: LD50: 746 mg/kg (rat, male) (OECD Test Guideline 401)

Acute Dermal: LD50: >7000 mg/kg (rat, male/female) (OECD Test guideline 402)

Acute Inhalation: LC50: 0.124 mg/l, 4h, vapour, (rat, male/female) OECD Test Guideline 403)

Skin Irritation: rabbit, OECD Test Guideline 404, Corrosive

Eye Irritation: rabbit, OECD Test Guideline 405, Corrosive

Sensitization: Dermal: Sensitizer (Human, case report) Respiratory: Sensitizer (guinea pigs)

Repeated Dose Toxicity: 2 years, inhalation: NOAEL: 0.005ppm, (rat, male/female, 6 hrs/day 5 days/week).  
Irritation to lungs and nasal cavity

Mutagenicity: Genetic Toxicity in Vitro- Negative Genetic Toxicity In Vivo- Negative

# Crosslinker B

## Safety Data Sheet

Carcinogenicity: Did not show carcinogenic effects in animal experiments
Toxicity to Reproduction/Fertility: No effect on reproduction
Teratogenicity: Did not show teratogenic effects in animal experiments
<b>1,6-Diisocyanatohexane homopolymer (28182-81-2)</b>
Acute Oral: LD50: >2500 mg/kg (rat, male) (OECD Test Guideline 423)
Acute Dermal: LD50: >2000 mg/kg (rat, male/female) (OECD Test guideline 402)
Acute Inhalation: LC50: 0.39-0.543 mg/l, 4h, vapour, (rat, male/female) OECD Test Guideline 403)
Skin Irritation: rabbit, OECD Test Guideline 404, slight irritant
Eye Irritation: rabbit, OECD Test Guideline 405, slight irritant
Sensitization: Dermal: Sensitizer (Mouse, OECD test Guidelines 429)) Respiratory: No pulmonary sensitivity observed in animal tests
Repeated Dose Toxicity: 90d , inhalation: NOAEL: 3.3, (rat, male/female, 6 hrs/day 5 days/week). Irritation to lungs and nasal cavity
Mutagenicity: Genetic Toxicity in Vitro- Negative Genetic Toxicity In Vivo- Negative
Carcinogenicity: Did not show carcinogenic effects in animal experiments
Toxicity to Reproduction/Fertility: No data available
Teratogenicity: No data available
<b>Polyisocyanate based upon HDI (125252-47-3)</b>
Acute Oral: LD50: >2000 mg/kg (rat, male)
Acute Dermal: LD50: >2000 mg/kg (rat, male/female) (OECD Test guideline 402)
Acute Inhalation: LC50: 0.39 mg/l, 4h, vapour, (rat, male/female) OECD Test Guideline 403)
Skin Irritation: rabbit, OECD Test Guideline 404, slight irritant
Eye Irritation: rabbit, OECD Test Guideline 405, slight irritant
Sensitization: Dermal: Sensitizer (Ginea pig, OECD test Guidelines 406) Respiratory: No Data Available
Repeated Dose Toxicity: No Data Available
Mutagenicity: Genetic Toxicity in Vitro- Negative Genetic Toxicity In Vivo- No Data Available
Carcinogenicity: Did not show carcinogenic effects in animal experiments
Toxicity to Reproduction/Fertility: No data available
Teratogenicity: No data available
<b>N-methyl-2-pyrrolidone (872-50-4)</b>
Acute Oral: LD50: 5130 mg/kg (mouse)
Acute Dermal: LD50: 8 g/kg (rabbit)
Acute Inhalation: >5100 ppm/4h (rat)
Skin Irritation: May cause skin irritation
Eye Irritation May cause temporary Corneal Clouding
Sensitization: Dermal: No data Available Respiratory: Causes respiratory irritation. Material has very low vapour pressure so inhalation exposures are not expected unless material is heated.
Repeated Dose Toxicity: No Data Available
Mutagenicity: Possible effects observed
Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP or OSHA
Toxicity to Reproduction/Fertility: Possible effects observed
Teratogenicity: Proposition 65 maximum allowable dose level for developmental toxicity is 3200 ug/day for the inhalation route and 17000

Other information : Likely routes of exposure: inhalation, skin and eye

# Crosslinker B

## Safety Data Sheet

### SECTION: 12. Ecological information

#### 12.1 Ecotoxicity

Ecology - general : Information refers to main component.

##### Crosslinker B

No Data Available on the product Please find data available for the individual components

##### 1,6-Diisocyanatohexane homopolymer (28182-81-2)

LC50 fishes 1	> 100 mg/l Zebra fish - 96 hr
EC50 Daphnia 1	> 100 mg/l 48 h
EC50 other aquatic organisms 1	> 1000 mg/l Green algae - 72 h
EC50 other aquatic organisms 2	> 1000 mg/l Activated sludge microorganisms - 3 h
Biodegradation	1%, 28 d, Not readily Biodegradable

##### Polyisocyanate based upon HDI

LC50 fishes 1	17.8 mg/l Zebra fish - 96 hr
EC50 Daphnia 1	58 mg/l 48 h
EC50 other aquatic organisms 1	>100 mg/l Green algae - 72 h
EC50 other aquatic organisms 2	> 10,000 mg/l Activated sludge microorganisms - 3
Biodegradation	2%, 28 d, Not readily Biodegradable

##### 1,6-Diisocyanatohexane

LC0 fishes 1	>=82.8 mg/l Zebra fish - 96
EC0 Daphnia 1	>=89.1mg/l 48
EC50 other aquatic organisms 1	> 77.4 mg/l Green algae - 72 h
EC50 other aquatic organisms 2	> 842 mg/l Activated sludge microorganisms - 3 h
Biodegradation	42%, 28 d, Not readily Biodegradable

##### N-methyl-2-pyrrolidone (872-50-4)

LC50 fishes 1	4000 mg/l Gold Orfe - 96 h
EC50 Daphnia 1	4897 mg/l 48 h
EC50 aquatic organisms	>9000 mg/l - 48 h
Biodegradation	Not Readily Biodegradable
Log POW	-0.46

#### 12.2. Mobility in environmental media

No additional information available

#### 12.3 Results of PBT and vPvB assessment

No data available

#### 12.4. Other adverse effects

Effect on ozone layer : No additional information available  
Effect on the global warming : No known ecological damage caused by this product.

### SECTION: 13. Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : This material and its container must be disposed of in a safe way, and as per local legislation. Consult state and local regulations regarding the proper disposal of this material. Empty containers contain product residue. Observe all hazard precautions. Incineration is the preferred method. Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR261.2, to determine if that waste is a hazardous waste

Additional information : Do not heat or cut empty containers with electric or gas torches because highly toxic vapors and gases are formed. Do not reuse container without thorough cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal. Flammable vapors may accumulate in the container. Handle empty containers with care because residual vapors are flammable. Empty containers contain product residue. Observe all hazard precautions.

### SECTION: 14. Transport information

For U.S. DOT only:

When shipped in individual containers of less than 119 gallons, this product ships as non-regulated.  
Classified as combustible liquid in containers greater than 119 gallons.

# Crosslinker B

## Safety Data Sheet

When in individual containers greater than the product RQ (reportable quantity), this material also meets the definition of Class 9.  
Reportable quantity is based upon Hexamethylene-1,6-diisocyanate (HDI) which has an RQ of 100 lbs.  
Based on the percent of HDI in the product, the product RQ for Crosslinker B would be 100,000 lbs.

When shipped in containers greater than 119 gallons, the following U.S. transport information would apply:

NA1993 Combustible liquid, n.o.s. (contains N-methylpyrrolidone), Comb liq, , III

When shipped individual containers of greater than 100,000 lbs. the following additional transport information would apply:

NA3082 Other regulated substances, liquid, n.o.s. (contains Hexamethylene-1,6-diisocyanate), 9, III

The supplier of Crosslinker B does not offer the product in containers greater than 119 gallons, nor in quantities greater than 100,000 lbs. in one container, therefore, no additional transport details are provided.

### Additional information

Other information : No supplementary information available.

### Transport by sea

Proper Shipping Name (IMDG) : Not regulated

Class (IMDG) : Not subject

### Air transport

Proper Shipping Name (IATA) : Not regulated

Class (IATA) : Not subject

## SECTION: 15. Regulatory information

### Safety health and environmental regulations specific to the product in question

#### 15.1. US Federal regulations

##### Crosslinker B

EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA inventory.
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SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
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##### Hexamethylene-di-isocyanate (822-06-0)

RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb
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##### N-Methylpyrrolidone

EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA inventory.
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SARA Section 311/312 Hazard Classes	Fire Delayed (chronic) health hazard Immediate (acute) health hazard
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#### 15.2. International (non-US) regulations

##### CANADA

##### Polyisocyanate based upon HDI

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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##### 1,6-Diisocyanatohexane homopolymer (28182-81-2)

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC or 1999/45/EC

No additional information available

#### 15.2.2. National regulations

##### Crosslinker B

All components of this product are listed on the Canada Domestic Substances List (DSL).

#### 15.3. US State regulations

##### Polyisocyanate based upon HDI

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
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##### 1,6-Diisocyanatohexane homopolymer (28182-81-2)



# Crosslinker B

## Safety Data Sheet

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
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### N-methyl-2-pyrrolidone (872-50-4)

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
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## SECTION: 16. Other information

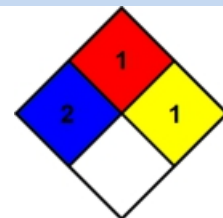
Revision date : See header of first page  
Data sources : Previous SDS. Supplier SDS.  
Training advice : Educate and train employees in the safe use and handling of this product. Follow all label instructions.  
Other information : All employees who are assigned to work with isocyanates should undergo a pre-placement medical evaluation. History of eczema or respiratory allergies are possible reasons for medical exclusion from isocyanate work areas. Employees with prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates.  
We assigned HMIS ratings to this product based on the hazard(s) of its ingredients.

### 16.1 SDS Preparation information

Date of SDS preparation or revision : See header on page 1  
Data sources : SDS. Supplier.

### 16.2 Other information

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given  
NFPA fire hazard : 1 - Must be preheated before ignition can occur  
NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently



### HMIS III Rating

Health : 2\* Moderate hazard, chronic effect  
Flammability : 1 Slight Hazard  
Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)

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