

Coatings2Go

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Emergency Assistance

For emergency assistance involving this product call – 978-369-4727

Section 1: Product Identification
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Product Name: Crosslinker B

MSDS #: 1008

Date Issued: September 17, 2008

Original Update

Reason For Change: Added EU Classifications

Section 2: Hazardous Ingredients

Hazardous Ingredients	CAS Number	OSHA PEL (Permissible exposure limit)	ACGIH TLV (Threshold limit value)	% By Weight	EU Symbol/ Classifications
n-Methylpyrrolidone	872-50-4	Not established	Not established	30-50	Xi; R36/38
Homopolymer of Hexamethylene Diisocyanate	28182-81-2	Not established	Not established	30-50	Not classified
Polyisocyanate based on HDI	Trade Secret	Not established	Not established	15-20	Not classified
Hexamethylene-1,6-Diisocyanate	822-06-0	0.005 ppm (TWA)	0.005 ppm (TWA)	<0.1	T; R23 Xi; R36/37/38 R42/43

Note: All health hazard components above 1% composition and all carcinogens above 0.1% (1000 ppm) composition are listed.

Section 3: Hazard Identification

EMERGENCY OVERVIEW: WARNING! Clear pale yellow liquid. Slight odor. May irritate skin, respiratory and gastrointestinal tract. May cause allergic skin and respiratory tract reaction. Skin and respiratory tract sensitizer. Respiratory and skin sensitization may be permanent. Harmful if inhaled.

Hazard Rating: NFPA

HMIS

Health: 2*

Flammability: 1

Reactivity: 1

PPE:

Hazard Rating Scale:

0= Minimal

1= Slight

2= Moderate

3= Serious

4= Severe

***Note:** NFPA and HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the specific hazard. To deal adequately with the safe handling of this, or any, material, all the information in the MSDS must be considered and interpreted by a trained professional.*

Potential Health Effects:

This material has **not been** tested as a whole. The data contained below is based on the properties of the individual components.

This material has been tested as a whole. The data below is based on the properties of the mixture.

Main Routes of Exposure:

- Inhalation
- Skin Absorption
- Ingestion
- Skin or Eye Contact

Effects of Acute (Immediate) Exposure:

- Eye Contact May be corrosive to eyes. May cause temporary corneal injury.
- Ingestion..... Swallowing may cause irritation of mouth, throat and gastrointestinal tract. Symptoms may include abdominal pain, nausea vomiting and diarrhea.
- Inhalation..... Can cause irritation to nose, throat, mucous membranes and lungs. Known respiratory sensitizer. May cause coughing, chest discomfort, shortness of breath and breathing difficulty.

Sensitization can be permanent.
- Skin Contact..... Moderate skin irritant based on animal studies. Known human skin sensitizer.

Sensitization can be permanent.
- Other.....

Effects of Chronic (Long Term) Exposure:

- Inhalation..... Respiratory sensitizer. Respiratory irritant. Symptoms may be delayed up to several hours after exposure. Extreme asthmatic reactions could be life-threatening.

Sensitization can be permanent.
- Ingestion..... May induce respiratory allergy/sensitization.
- Skin Contact..... This produce may produce skin sensitization in humans. Sensitization can be permanent.

Medical Conditions Aggravated by Exposure:

Any pre-existing disorders or diseases of the respiratory system (asthma, other respiratory disorders), skin (eczema, skin allergies) and eyes.

Target Organs Affected:

Respiratory system, skin and eyes

The components of this material are considered Carcinogenic by:

- Not Known**
- National Toxicology Program (NTP)**
- The International Agency for Research on Cancer (IARC)**
- The Occupational Health and Safety Administration (OSHA)**

Eye Contact.....	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids open to rinse completely. Get medical aid.
Ingestion.....	DO NOT INDUCE VOMITING. Give plenty of water to drink. Get medical aid immediately. Never give anything by mouth to an unconscious person.
Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Skin Contact.....	In case of contact, flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical aid if irritation, redness, swelling or skin pain develops and persists. Wash clothing before re-use.
** Note to the Physician:.....	Eyes; Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Ingestion: Treat symptomatically. There is no specific antidote. Inhalation: Treat symptomatically. An individual having a sensitivity reaction to this material should be removed from further exposure to any diisocyanate. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. An individual having a sensitivity reaction to this material should be removed from further exposure to any diisocyanate.

Section 5: Fire Fighting Measures

Flash Point Deg. C <input type="checkbox"/> F <input checked="" type="checkbox"/>	~200 ° Pensky-Martin closed cup
Auto – Ignition Temperature.....	Not determined
Upper Flammable Limit (% Vol).....	Not determined
Lower Flammable Limit (% Vol).....	Not determined
Extinguishing Media.....	Use water fog, dry chemical, carbon dioxide, halogen agents or foam. From a safe distance, cool containers with water. Reaction between water and hot isocyanate can be extremely dangerous in large fires.
Hazardous Combustion Products.....	Oxides of carbon and nitrogen and other toxic vapors. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated.

General Information:

Firefighters should wear full protective equipment and positive pressure self-contained breathing apparatus in pressure-demand mode. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low areas. Use water spray to cool fire-exposed container surfaces.

Section 6: Accidental Release Measures

Spill / Leak.....	Use proper personal protective equipment as indicated in Section 8. Stop flow of material. Absorb with inert material (e.g. "oil dry", sand, earth or other suitable absorbent), then place into a suitable container. Clean up spills immediately. Provide ventilation.
	Prevent from entering floor drains or sewers. Do not release any chemicals of any type to sewers or any waterways without proper authorization from government agencies. Make appropriate notifications as required.

Section 7: Handling and Storage

Handling Procedures.....	Maintain good personal hygiene. Wash hands and face thoroughly after handling, and before eating, drinking or using tobacco products. Remove contaminated clothing and wash before re-use. Avoid contact with eyes, skin and clothing. Keep containers tightly closed. Use only with adequate ventilation. Avoid breathing vapor or mist.
	Prevent skin and eye contact.
	Wear respiratory protection (air-purifying or fresh-air) if material is heated, sprayed or used in a confined space or if the exposure limit is exceeded.
	Open containers in well-ventilated areas away from heat, sources of ignition, direct sunlight and incompatible materials.
Storage Needs.....	Observe local regulations. Store in a cool (<150°F), dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use. Keep away from direct sunlight, heat, sparks or open flames. Keep from freezing.

Section 8: Exposure Controls / Personal Protection

When selecting personal protective equipment and clothing, follow all manufacturer specifications and recommendations that apply to your specific operations and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed.

Eye / Type.....	Wear splash-proof chemical safety goggles and a face shield. Contact lenses should not be worn when working with chemicals.
Respiratory /Type.....	Where engineering measures are not feasible, NIOSH certified full-face supplied-air respirators provide the highest protection. Where the use of NIOSH certified full-face supplied-air respirators is not feasible, NIOSH certified full-face-piece air purifying respirators equipped with high efficiency (HEPA) filters may be used.
Gloves / Type.....	Wear chemical resistant gloves such as butyl rubber or nitrile.
Clothing / Type.....	Wear long sleeved garment such as a lab coat to prevent skin exposure.
Other / Type.....	Facilities using or storing this product should be equipped with an eyewash facility and safety shower within 100 feet

from work area.

Ventilation Requirements..... While this crosslinker has a very low vapor pressure precluding significant inhalation exposure under normal conditions, uses which may generate aerosol mists, such as spray application, need to be well controlled to prevent significant inhalation exposures which present serious health risks such as respiratory sensitizations.

Where aerosol mists may be generated, the operation should be enclosed as much as possible, with extraction ventilation provided at any required openings. A properly engineered spray booth, equipped with down-draft or lateral flow ventilation, is a possible engineering control measure.

Air exhausted from the enclosure should be filtered and discharged to a safe location, preferably outdoors.

Medical Monitoring: All workers exposed to diisocyanates should undergo a pre-placement medical evaluation.

A comprehensive annual medical surveillance program should be instituted for workers potentially exposed to diisocyanates.

Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

Section 9: Physical and Chemical Properties

Appearance/Odor.....	Pale yellow liquid, slight odor
Specific Gravity.....	1.16 g/cm ³
Vapor Pressure	Not determined
Vapor Density	Heavier than air
Evaporation Rate.....	Not determined
Boiling Point	Not determined
Solubility in Water (%W/W).....	Miscible
Freezing Point (deg. C <input type="checkbox"/> F <input type="checkbox"/>).....	Not determined
Melting Point (deg. C <input type="checkbox"/> F <input type="checkbox"/>).....	Not determined

Section 10: Stability and Reactivity

Hazardous Polymerization.....	May occur if mixed with materials that react with isocyanate, or if in contact with water. Temperatures above 350°F may cause polymerization.
Stability.....	Stable under normal conditions of use and storage.
Incompatibility.....	Strong oxidizing agents, strong acids and bases, anhydrides, water, amines, alcohols, copper alloys

Conditions to Avoid.....	Ignition sources, excess heat, freezing conditions Contact with water. Unstable at elevated temperatures and pressures, or may react with water or acids with some release of energy, but not violently.
Hazardous Products of Decomposition....	Oxides of carbon and nitrogen and other toxic vapors

Section 11: Toxicology Information

Irritancy of Material.....	May cause skin, eye and respiratory tract irritation.
Sensitizing Capability of Material.....	Skin and respiratory sensitizer.
Carcinogenicity of Material.....	Not known
Teratogenicity	Not known.
Mutagenicity.....	Negative (Ames test)
Reproductive Effects.....	Not known
Synergistic Materials.....	Not known

Section 12: Ecology Information

Environmental.....	Not known
Biodegradability.....	Not readily biodegradable

Section 13: Disposal Considerations

Waste Disposal (RCRA)	Waste generators must consult with federal, state and local hazardous waste regulations to ensure complete and accurate classification.
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Section 14: Transport Information

U. N. #	NA3082
D.O.T. Classification	ORM-D if < 1 liter

Section 15: Regulatory Information

<input checked="" type="checkbox"/> TSCA	<input checked="" type="checkbox"/> Components of this product are listed on the TSCA Inventory or are exempt.
<input checked="" type="checkbox"/> CERCLA	<input checked="" type="checkbox"/> None

SARA TITLE III

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- This product is considered, under applicable definitions, to meet the following categories:

Section 311/312:

Immediate/acute health hazard, delayed/chronic health hazard, reactivity hazard

Section 313:

This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under Section 313 (40 CFR 372). This information must be included in all MSDSs copied or distributed for this material:
None

 CALIFORNIA PROPOSITION 65

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- This product contains chemicals listed as carcinogens or reproductive toxins at levels which could be subject to Proposition 65: n-Methyl pyrrolidone

 CANADA

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- Domestic Substances List:
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- All ingredients are on DSL or NDSL.

WHMIS Ingredient Disclosure List:

Not known

 EUROPEAN INFORMATION

-
- Xi Irritating
-
- T Toxic
-
- R23 Toxic by inhalation.
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- R36/37/38 Irritating to eyes, respiratory system and skin.
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- R42/43 May cause sensitization by inhalation and skin contact.
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- S1/2 Keep locked up and out of reach of children.
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- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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- S28 In case of contact with skin, wash immediately with plenty of water.
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- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
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- S41 In case of fire and/or explosion, do not breathe fumes.
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- S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Section 16: Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This information is based on the material as manufactured, it may not be valid for this material if used in combination with any other materials or in any process. Surface Solutions Labs/Coatings2Go shall not be held liable for any damage resulting from handling or from contact with the product(s).