

**Coatings2Go**

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<b>Emergency Assistance</b>
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For emergency assistance involving this product call – 978-369-7411

<b>Section 1: Product Identification</b>
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**Product Name:** Crosslinker A

**MSDS #:** 1007

**Date Issued:** September 17, 2008

**Original**  **Update**

**Reason For Change:** Added EU Classifications

<b>Section 2: Hazardous Ingredients</b>
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Hazardous Ingredients	CAS Number	OSHA PEL (Permissible exposure limit)	ACGIH TLV (Threshold limit value)	% By Weight	EU Symbol/ Classifications
Polyfunctional aziridine	64265-57-2	Not established	Not established	90-100	Not classified
2-Dimethyl aminoethanol	108-01-0	Not established	Not established	0.1-1.0	Xn; R10;R20/21/22 R34
2-Methylaziridine	75-55-8	2 ppm (Skin)	2 ppm (Skin)	<0.0001	F; T+, Xi R 45; R26/27/28 R41; R51/53; N

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

<b>Section 3: Hazard Identification</b>
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**EMERGENCY OVERVIEW: WARNING!** Pale yellow liquid. Mild amine odor. May irritate skin, respiratory and gastrointestinal tract. Skin and respiratory tract sensitizer. May be corrosive to eyes.

**Hazard Rating:** NFPA

HMIS

**Hazard Rating Scale:**

**Health:** 3

**0= Minimal**

**Flammability:** 1

**1= Slight**

**Reactivity:** 1

**2= Moderate**

**PPE:**

**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

Ingestion

Skin Absorption                       Skin or Eye Contact

**Effects of Acute (Immediate) Exposure:**

Eye Contact ..... May be corrosive to eyes.

Ingestion..... Swallowing may cause irritation of mouth, throat and gastrointestinal tract.

Inhalation..... Can cause irritation to nose, throat, mucous membranes and lungs. Known respiratory sensitizer.

Skin Contact..... Moderate skin irritant based on animal studies. Known human skin sensitizer.

Other..... Aziridine-based crosslinkers: Aziridine-based crosslinkers caused mutations and chromosomal abnormalities in several in-vitro and in-vivo studies. Based on these studies and animal carcinogenicity data on similar sub-species, this material should be treated as a potential carcinogen.

**Effects of Chronic (Long Term) Exposure:**

Inhalation..... Respiratory sensitizer. Respiratory irritant.

Ingestion..... May induce respiratory allergy/sensitization.

Skin Contact..... This produce may produce skin sensitization in humans.

**Medical Conditions Aggravated by Exposure:**

Any pre-existing disorders or diseases of the respiratory system, skin 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)**

**Section 4: First Aid Measures**

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:**..... None noted.

#### Section 5: Fire Fighting Measures

Flash Point Deg. C <input type="checkbox"/> F <input checked="" type="checkbox"/>	> 100 ° SETA Flash 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. Cool containers with water until well after the fire is out.
Hazardous Combustion Products.....	Oxides of carbon and nitrogen and other toxic vapors

#### **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.
	Decontaminate with 1% acetic acid solution or one part white vinegar to four parts water. 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.
	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.....	<p>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.</p> <p>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.</p> <p>Air exhausted from the enclosure should be filtered and discharged to a safe location, preferably outdoors.</p>

### Section 9: Physical and Chemical Properties

Appearance/Odor.....	Pale yellow liquid, mild amine odor
Specific Gravity.....	1.07 g/cm <sup>3</sup>
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  F )..... Not determined

#### Section 10: Stability and Reactivity

Hazardous Polymerization..... May occur if mixed with acidic materials.

Stability..... Stable

Incompatibility..... Strong oxidizing agents, acids and anhydrides

Conditions to Avoid..... Ignition sources, excess heat, freezing conditions

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..... Aziridine-based crosslinkers caused mutations and chromosomal abnormalities in several in-vitro and in-vivo studies. Based on these studies and animal carcinogenicity data on similar sub-species, this material should be treated as a potential carcinogen.

Teratogenicity ..... Not known.

Mutagenicity..... Not known

Reproductive Effects..... Not known

Synergistic Materials..... Not known

#### Section 12: Ecology Information

Environmental..... Water-soluble.

Biodegradability..... Not known

#### 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.

#### Section 14: Transport Information

U. N. # ..... Not regulated.

D.O.T. Classification ..... Not regulated.

#### Section 15: Regulatory Information

TSCA  Components of this product are listed on the TSCA Inventory or are exempt.

CERCLA SARA TITLE III This product is considered, under applicable definitions, to meet the following categories:Section 311/312:

Immediate/acute health hazard, delayed/chronic health 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 This product contains chemicals listed as carcinogens or reproductive toxins at levels which could be subject to Proposition 65. CANADA Domestic Substances List:

All ingredients are on DSL or NDSL.

WHMIS Ingredient Disclosure List:

Class D, Division 2B, Toxic

Class D, Division 2A, Very Toxic

 EUROPEAN INFORMATION F Highly Flammable

N Dangerous for the environment

T+ Very Toxic

Xi Irritating

Xn Harmful

R10 Flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed

R34 Causes burns

R41 Risk of serious damage to eyes

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S1/2 Keep locked up and out of reach of children

S25 Avoid contact with eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39

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. Restricted to professional users

S61 Avoid release to the environment. Refer to special instructions / Safety data sheets

**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**

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