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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** Diamond Coat Epoxy - Diamond Coat 93 Percent Urethane - Part A**MANUFACTURER/SUPPLIER:** Diamond Coat Epoxy  
2526 Patterson Rd., Suite 100  
Grand Junction, CO 81505, USA  
Phone: 1 (970) 628-1846  
Toll-Free: 1 (888) 628-0846  
Fax: 1 (888) 628-0846**EMERGENCY PHONE NUMBERS:** INFOTRAC (24 HRS): USA & CANADA 1 (800) 535-5053  
INFOTRAC (24 HRS): INTERNATIONAL 1 (352) 323-3500

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**SECTION 2: HAZARDS IDENTIFICATION**

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**GHS Label Elements and Precautionary Statements:****Label Elements:****Hazard Statements**

Eye Irritation	Category 2A
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1

H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/ spray.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/eye protection/face protection.  
P285 In case of inadequate ventilation wear respiratory protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.  
P333+P313 If skin irritation or rash occurs get medical advice/ attention.  
P337+P311 If eye irritation persists: Get medical advice/ attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of containers in accordance with local/regional/national/international requirements.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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INGREDIENT	CAS NO.	WEIGHT %
Hexane,1,6-diisocyanate, -Homopolymer	1628182-81-2	100
Hexamethylene Diisocyanate (HDI)	822-06-0	<0.5

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**SECTION 4: FIRST AID MEASURES**

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**Eye Contact:** Immediately flush eyes gently with large amounts of water for at least 15 minutes. Retract eyelids often. Get prompt medical attention. Can cause pain, tearing, reddening, swelling accompanied by a stinging sensation. Chronic exposure can cause corneal opacity.**Skin Contact:** Thoroughly wash the exposed area with mild soap and water. Remove contaminated clothing and launder contaminated clothing before re-use. Seek medical attention if exposure symptoms develop. May be harmful if absorbed through the skin. Symptoms of irritation may be reddening swelling, rash, scaling or blistering. May cause sensitization and allergic reaction.**Ingestion:** If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching the back of the throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than the waist if vomiting occurs and the victim is conscious; give water to further dilute the chemical. May be harmful if swallowed. Can cause irritation and possible corrosive action to the mouth, stomach tissue and digestive tract.

Updated 12/01/2020

**Inhalation:** If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention immediately. May cause shortness of breath, headache, nausea, vomiting, respiratory tract irritation.

**Advice to physicians:** All treatment 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. Exposure may aggravate asthma and other respiratory disorders (bronchitis, emphysema, and hyperactivity) skin allergies and eczema.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**Conditions of Flammability:** Product will burn under fire conditions. Under fire conditions, toxic, corrosive fumes are emitted including nitrogen and carbon oxides. Use water to cool tightly closed containers exposed to fire. Self contained breathing apparatus and full protective clothing is required when smoke or fumes are generated.

**Suitable extinguishing media:** Dry Chemical, CO<sub>2</sub>, Foam, WATER IS NOT recommended.

**Hazardous Decomposition Products:** Thermal decomposition may produce nitrogen oxides and carbon oxides.

**Fire Fighting Instructions:** Do not enter fire area without proper protection. Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent. See Section 10 - decomposition products possible. Fight fire from safe distance/protected location. Use water spray/fog for cooling tightly sealed containers. Notify authorities if liquid enters sewer/public waters.

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**SECTION 6: RELEASE MEASURES**

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**Personal Precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental Precautions:** Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Notify authorities of any releases to sewers, soils, waterways or air. Prevent runoff from entering drains, sewers, or streams. Dispose/report per regulatory requirements. See Section 1 for emergency contact information and Section 13 for waste disposal.

**Methods and Materials for Containment and Cleaning Up:** Cover spills and soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into disposal container. Pump free liquid into an appropriate closed container. Clean up spill area with a decontamination solution made up of 50% isopropanol, 45% water and 5% concentration ammonia solution (% by Weight). The solution should cover the area for at least one hour. Absorb with an inert absorbent. Collect washing for disposal. Dispose/report per regulatory requirements. Do not flush into drains.

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**SECTION 7: HANDLING AND STORAGE**

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**Precautions for Safe Handling:** Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Conditions for Safe Storage:** This material is stable under normal handling and storage conditions. Maximum storage temperature is < 40 C (104 F). Store in a dry, well ventilated area. Store, transfer and handle under a blanket of nitrogen. Before closing partially empty containers, blanket with dry nitrogen. Replace damaged gaskets.

Store in tightly closed containers. Store in original container. Recommended container material: aluminum, epoxy coated steel, stainless steel, plastic. Container material to avoid, copper, tin.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Hazardous Component	PEL	STEL	TLV	Other
Hexane, 1,6-diisocyanate, -Homopolymer	NE	NE	NE	NE
Hexamethylene Diisocyanate (HDI)	NE	NE	ACGIH 0.005 ppm	NE

**Engineering Controls:** Local exhaust ventilation may be required in addition to general room ventilation. Good industrial hygiene practice dictates that worker protection be achieved through ventilation whenever feasible.

**Respiratory Protections:** Where respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations. Full-face air purifying respirators are required in work environments where isocyanate airborne concentrations exceed the action level but are significantly lower than the IDLH provided that the cartridges are changed daily. Use combination HEPA Filter for the polyisocyanate aerosol and an organic vapor cartridge for the solvents used. Full face supplied air respirators (SAR) are required in work environments where isocyanate airborne concentrations have not been characterized or are expected to exhibit considerable and sudden variations such as in spray type application. Curing ovens must be ventilated to prevent emissions to the workplace.

Updated 12/01/2020

**Eye Protection:** Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

**Skin and Body Protection:** When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Gloves should be impervious neoprene, rubber or latex. Clean equipment thoroughly after each use.

**Other hygienic practices:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### OTHER WORK PRACTICES

Precautions must be taken so that persons handling this product do not allow contact with eyes or skin. In spray operations protection must be afforded against exposure to both vapor and spray mists.

Use good personal hygiene practices. Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is being used. Wash hands before eating, drinking, smoking or using toilet facilities. Wash exposed skin promptly to remove accidental splashes or contact with these materials. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Form	Viscous Liquid
Appearance	Clear to Pale Yellow
pH	Not Available
Melting/Freezing Temperature	67 C (152 F)
Boiling Point	255 C (491 F)
Flash Point	170 C/ 338 F
Ignition Temperature	Not available
Autoignition Temperature	454 C (849 F)
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapor Pressure	0.001 mm Hg at 20 C
Vapor Density (air=1)	5.8 Air = 1
Specific Gravity (water=1 @39.2F)	1.13 at 20 C / 68 F
Evaporation Rate (Bac=1)	Not available
Odor	Odorless
Odor threshold	Not available

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#### SECTION 10: STABILITY AND REACTIVITY

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**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Stable under normal processing conditions.

**Conditions to Avoid:** Reacts violently with common materials including water, alcohols, bases and amines.

**Materials to Avoid:** Store away from water, alcohols, bases, and amines.

**Hazardous Decomposition Products:** Thermal decomposition may produce nitrogen oxides and carbon oxides.

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#### SECTION 11: TOXICOLOGICAL INFORMATION

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Acute Toxicity hexamethylene diisocyanate	Oral LD50	Rat	> 5,000 mg/kg.
	Dermal LD50	Rabbit	> 2,000 mg/kg
	Inhalation LD50	Rat	2.18 mg/1-4 hr

Updated 12/01/2020

<b>Skin Irritation</b>	Slightly Irritating
<b>Eye Irritation</b>	Mildly Irritating
<b>Respiratory or Skin Sensitization</b>	Sensitizing
<b>Carcinogenicity</b>	<p>IARC: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.</p> <p>NTP: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.</p>

## SECTION 12: ECOLOGICAL INFORMATION

<b>Aquatic Ecotoxicity</b>	No data available
<b>Biodegradability</b>	No data available
<b>Soil Mobility</b>	No data available

## SECTION 13: WASTE DISPOSAL

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33.

## SECTION 14: Transport Information

<b>DOT (US)</b>	Not Regulated
<b>IMDG</b>	Not Regulated
<b>IATA</b>	Not Regulated

## SECTION 15: REGULATORY INFORMATION

<b>TSCA INVENTORY STATUS</b>	All components are listed or exempt		
<b>OSHA HAZARDS</b>	This Safety Data Sheet has been prepared according to OSHA Standard No. 1910.1200(g).		
<b>SARA TITLE III: Section 311/312/313 Hazard Class</b>	Hexamethylene Diisocyanate	CERCLA/SARA RQ	100 lbs
<b>California Proposition 65 Information:</b>	This product does not contain, or may contain substance(s) known to the state of California to cause cancer and/or reproductive toxicity.		

## SECTION 16: OTHER INFORMATION

**DISCLAIMER:** Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.