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### **SECTION 1: IDENTIFICATION**

GHS PRODUCT IDENTIFIERS:

PRODUCT NAME: Diamond Coat Epoxy Flooring Hardener SYNONYMS, TRADE NAMES: Diamond Coat Epoxy Flooring Part B

OTHER MEANS OF IDENTIFICATION: Not available

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

USES: Multiple RESTRICTIONS ON USE: None

SUPPLIER DETAILS:

MANUFACTURER/SUPPLIER: Diamond Coat Epoxy USA

2530 Foresight Circle E

Grand Junction, CO 81505, USA

Phone: 1 (970) 628-1846 Toll Free: 1 (888) 628-0846 Fax: 1 (888) 628-0846

CONTACT PERSON:

EMERGENCY PHONE NUMBER:

INFOTRAC (24 HRS): USA & CANADA 1 (800) 535-5053 INFOTRAC (24 HRS): INTERNATIONAL +1 (352) 323-3500

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Acute toxicity, oral:

Acute toxicity, dermal:

Skin Corrosion:

Category 4, H312

Category 4, H312

Category 1C, H314

Eye Damage:

Category 1, H318

Skin sensitization:

Category 1, H317

Hazardous to the aquatic environment: Chronic Category 3, H412

Acute toxicity, inhalation: Category 4, H332

Hazardous to the aquatic environment: Acute Category 3, H402

Specific Organ Toxicity: Single Exposure, Category 3, H335, H336

## GHS LABEL ELEMENTS:

**HAZARD SYMBOLS:** 







SIGNAL WORDS: Danger

HAZARD STATEMENTS: H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.



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H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

PREVENTION: P260 Do not breath mists.

P261 Avoid breathing dust, fumes, gas mist, vapors and spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, clothing, and eye/face protection.

RESPONSE: P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P312 Call a POISON CENTER if you feel unwell.

P303+P361+P364+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash

with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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 attention.

P391 Collect spillage.

STORAGE: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and

international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

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

CHEMICAL NAME	CAS NUMBER	CONTENT
Isophoronediamine	2855-13-2	30-50%
Benzyl Alcohol	100-51-6	30-50%
2-methyl-1,5-pentanediamine	15520-10-2	1-10%
N-(2-aminoethyl)piperazine	140-31-8	1-10%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

## **SECTION 4: FIRST-AID MEASURES**

#### DESCRIPTION OF NECESSARY FIRST-AID MEASURES:

INHALATION: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing,

give artificial respiration.



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SKIN: Immediately remove contaminated clothing and shoes. Wash the affected area with

plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention immediately.

EYES: Immediately flush eyes with plenty of clean water for an extended time, not less than

fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and

roll eyes in a circular motion. Get medical attention immediately.

INGESTION: Do not induce vomiting. Never give anything by mouth to an unconscious person.

Rinse out the mouth with water. Get medical attention immediately.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

S YMPTOMS: Burns. Irritation. Pre-existing skin problems may be aggravated by prolonged or

repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to

vapors. See section 11 for additional information.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF

NECESSARY:

TREATMENT: Treat symptomatically.

#### SECTION 5: FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA:

SUITABLE: Use water spray, foam, dry chemical or carbon dioxide.

UNSUITABLE: None known.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

UNUSUAL FIRE & EXPLOSION HAZARDS: Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. HAZARDOUS COMBUSTION PRODUCTS: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous decomposition products for additional information.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

ENVIRONMENTAL PRECAUTIONS: Do not flush product into public sewer, water systems or surface waters.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

#### SECTION 7. HANDLING AND STORAGE



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PRECAUTIONS FOR SAFE HANDLING: As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep away from heat, sparks and open flames. Store dry at 15-40°C, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **CONTROL PERAMETERS:**

#### OCCUPATIONAL EXPOSURE LIMITS:

CAS NUMBER	ACGIH-TWA	ACGIH-STEL
2855-13-2	Not available	Not available
100-51-6	Not available	Not available
15520-10-2	Not available	Not available
140-31-8	Not available	Not available
	2855-13-2 100-51-6 15520-10-2	2855-13-2 Not available 100-51-6 Not available 15520-10-2 Not available

APPOPRIATE ENGINEERING CONTROLS: Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE Full face shield with safety glasses or goggles underneath are required.

PROTECTION:

SKIN Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL,

PROTECTION: butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/

workplace procedures including personal protective clothing: lab coat and protective

gloves.

RESPIRATORY Wear an approved respirator (e.g., an organic vapor respirator, a full face air PROTECTION: purifying respirator for organic vapors, or a self-contained breathing apparatu

purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable

exposure limit(s) of any chemical substance listed in this SDS.

GENERAL Eyewash fountains and safety showers are recommended in the work area.

PROTECTION:

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid UPPER/LOWER FLAMMABILTY Not available

OR EXPLOSIVE LIMITS:

COLOR: Clear amber VAPOUR PRESSURE: <0.15 mm Hg at 20°C

ODOUR: Amine-like VAPOUR DENSITY: Heavier than air

ODOUR THRESHOLD: Not available RELATIVE DENSITY: 1.02
PH: SOLUBILITY(IES): Slightly



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MELTING POINT/ Not available PARTITION COEFFICIENT Not available

FREEZING POINT (n-octanol/water):

INITIAL BOILING POINT >204°C AUTO-IGNITION Not available

AND BOILING RANGE: TEMPERATURE:

Not available

FLASH POINT: >93°C DECOMPOSITION Not available

TEMPERATURE:

EVAPORATION RATE: Not available VISCOSITY: 150 cP at 25°C

FLAMMABILITY

(SOLID, GAS):

#### SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

CHEMICAL STABILITY: This product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS: Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

CONDITIONS TO AVOID: Excessive heat and ignition sources.

INCOMPATIBLE MATIERALS: Avoid strong acids, bases, and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes, oxides of nitrogen and other products of incomplete combustion.

#### SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: Eyes, skin, inhalation and ingestion.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMCIAL AND TOXICOLOGICAL CHARACTERISTICS:

EYES: Causes serious eye damage.

SKIN: Causes severe skin burns. May cause allergic skin reaction. Harmful in contact with

skin.

INHALATION: Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

INGESTION: Harmful if swallowed.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE: Not available.

ACUTE TOXICITY:

LC<sub>50</sub> INHALATION LD50 DERMAL CHEMCIAL NAME LD<sub>50</sub> ORAL (RAT) (RAT) (RABBIT) Isophoronediamine  $>5.01 \, mg/L$ 1,030 mg/kg >2,000 mg/L>2,000 mg/LBenzyl Alcohol Not available 1,230 mg/kg 2-methyl-1,5-pentanediamine 4.9 mg/L 1,170 mg/kg 1,870 mg/kg N-(2-aminoethyl)piperazine Not available 2,140 mg/kg 880 mg/kg

CORROSION / IRRITATION / SENSITIZATION INFORMATION:

SKIN CORROS ION/IRRITATION: Skin Corrosion – Category 1
SERIOUS EYE DAMAGE/IRRITATION: Eye Damage – Category 1
RESPIRATORY OR SKIN SENSITIZATION: Skin Sensitization – Category 1

CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICOLOGY INFORMATION:



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GERM CELL MUTAGENICITY: Information is not available.
CARCINOGENICITY: Information is not available.
REPRODUCTIVE TOXICITY: Information is not available.

SPECIFIC TARGET ORGAN TOXICITY (STOT):

STOT-SINGLE EXPOSURE: Category 3, Inhalation.
STOT-REPEATED EXPOSRE: Information is not available.

ASPIRATION HAZARD: Information is not available.

OTHER INFORMATION: None

Isophoronediamine

## SECTION 12. ECOLOGICAL INFORMATION

TOXICITY:					
CHEMICAL NAME	TEST	SPECIES		RESULT	
Isophoronediamine	LC50 (96 hrs)	Fish		110 mg/L	
	EC50 (48 hrs)	Daphnia		23 mg/L	
	EC10 (18 hrs)	Bacteria		1120 mg/	L
Benzyl Alcohol	Alcohol LC50 (96 hrs) Fish			460 mg/L	
	EC50 (48 hrs)	Daphnia		230 mg/L	
	EC50 (72 hrs)	Algae		770 mg/L	
2-methyl-1,5-pentanediamine	methyl-1,5-pentanediamine LC50 (72 hrs) Algae			>100 mg/L	
	EC50 (48 hrs)	Daphnia		19.8 mg/l	_
	LC50	Fish		1,825 mg	/L
N-(2-aminoethyl)piperazine	ethyl)piperazine LC50 (24 hrs) Fish			2,190 mg/L	
	EC50 (48 hrs)	Daphnia		58 mg/L	
	EC50 (72 hrs)	Algae		>1,000 m	g/L
PERSISTENCE AND DEGRADBILITY:					
CHEMICAL NAME	TEST			PERIOD	<b>RESULT</b>
Isophoronediamine	EU EC C.4-A Biodegradation: Determination of the "Read" Biodegradability: Dissolved Organic Carbon (DOC) Die-Away Test		28 Days	8%	
Benzyl Alcohol	OECD 301A Ready Biodegradability – DOC Die Away test		21 Days	95-97%	
2-methyl-1,5-pentanediamine	Readily biodegra	Readily biodegradable			
N-(2-aminoethyl)piperazine	OECD 301F Test		28 Days	0%	
BIOACCUMULATIVE POTENTIAL:					
CHEMICAL NAME	Log Pow		BCF	POTENT	IAL
Isophoronediamine	0.99		Not available	Low	
Benzyl Alcohol	1.1		Not available	Low	
2-methyl-1,5-pentanediamine			Not available	Not available	
N-(2-aminoethyl)piperazine	<3		<100	Low	
MOBILITY IN SOIL:					
CHEMICAL NAME	SOIL/WATER PARTITION COEFFICIENT (Koc)				
		<b>-</b>	- (90)		

Not available



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Not available Benzyl Alcohol 2-methyl-1,5-pentanediamine Not available

N-(2-aminoethyl)piperazine Between 150 and 500

OTHER ADVERSE EFFECTS: Additional information is not available

#### SECTION 13. DISPOSAL CONSIDER ATIONS

DISPOSAL METHODS: Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

#### SECTION 14. TRANSPORTATION INFORMATION

UN NUMBER: UN2289

UN PROPER SHIPPING NAME: Isophoronediamine Solution

TRANSPORT HAZARD CLASS:

U.S. DOT HAZARD CLASS: 8 CANADA TDG HAZARD CLASS: 8 EUROPE ADR/RID HAZARD CLASS: 8 IMDG CODE (OCEAN) HAZARD CLASS: 8 ICAO/IATA (AIR) HAZARD CLASS: 8

PACKING GROUP: III

**ENVIRONMENTAL HAZARDS:** 

MARINE POLLUTANT: No HAZARDOUS SUBSTANCE (USA): No

SPECIAL PRECAUTIONS FOR USER: Information is not available.

TRANSPORTING IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Information is not available.

LABEL FOR CONVEYANCE:



OTHER INFORMATION: ORM-D Consumer Commodity in 1 gal or less containers

#### SECTION 15. REGULATORY INFORMATION

SAFETY. HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN OUESTION:

U.S. Superfund Amendments and Reauthorization Act (SARA) -SARA Section 313

Nonylphenol (CAS 84852-15-3)

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances

None of the

components are listed.



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Annex XVII - Restrictions on the manufacture, placing on the market and use of Nonylphenol certain dangerous substances, mixtures and articles (CAS 84852-15-3)

OTHER REGULATIONS: Additional information is not available.

#### CHEMICAL INVENTORIES:

Υ Canadian Domestic Substances List (DSL): Canadian Non-Domestic Substances List (NDSL): Ν Υ European Inventory of Existing Chemical Substances (EINECS): European List of Notified Chemical Substances (ELINCS): Ν U.S. Toxic Substances Control Act (TSCA): Υ

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

#### SECTION 16. OTHER INFORMATION

REVISION DATE: November 9, 2017

LEGEND: ACGIH: American Conference of Governmental Industrial Hygienists

ADR/RID: European dangerous goods transport road and rail regulations

CAS No: Chemical Abstract Service Registry Number

DOT: Department of Transportation (U.S.)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

**OEL: Occupational Exposure Limits** 

OSHA: Occupational Safety and Health Administration (U.S.)

PEL: Permissible Exposure Limit

RQ: Reportable Quantity SDS: Safety Data Sheet

STEL: Short Term Exposure Limit (15 minute Time Weighted Average) TDG: Canadian Transportation of Dangerous Goods Act and Regulations

**UN: United Nations** U.S.: United States

#### USERS RESPONSIBILITY/DISCLAIMER OF LIABILITY:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.