
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Diamond Coat Epoxy - Diamond Coat 93 Percent Urethane - Part B**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

SECTION 2: HAZARDS IDENTIFICATION

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

Flammable liquids	Category 4
Skin corrosion	Category 1C
Eye irritation	Category 2A
Skin sensitization	Category 1A
Acute aquatic toxicity	Category 3

H227 Combustible liquid
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H402 Harmful to aquatic life

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces, no smoking.
P260 Do not breathe dust/ fume/ gas mist/ vapors/spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release into the environment.
P280 Wear protective gloves/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/ shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.
P332+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant in accordance with applicable laws and regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	WEIGHT %
Isophorondiamine-isobutyraldimine	54914-37-3	100

SECTION 4: FIRST AID MEASURES

Inhalation: Move victim into fresh air. If breathing is labored, administer oxygen. Consult a doctor immediately.**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

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Eye Contact: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist.

Ingestion: Rinse out mouth, spit out liquid. Do not induce vomiting and seek medical advice immediately. .

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, CO2, dry powder.

Unsuitable Extinguishing Media: High volume water jet.

Unusual Fire and Explosion Hazards: Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Combustible liquid vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Autoignition may occur with cotton waste or similar combustible materials.

Hazardous Decomposition Products: Isophorone diamine, isobutyraldehyde, nitrogen oxides, carbon monoxide, carbon dioxide.

Advice to Fire Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Vapors or mist may be a fire and explosion hazard when exposed to high temperature or ignition. Closed container may forcibly rupture under extreme heat. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition.

SECTION 6: RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment. Evacuate surrounding areas and isolate the area. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Implement site emergency response plan.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

Containment/Clean-up Measures: Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out of spill area. Remove all sources of ignition, including flames, heat and sparks. Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain the absorbent material soaks up all liquids. .

SECTION 7: HANDLING AND STORAGE

Handling: Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Keep away from heat, sparks, flames and other sources of ignition. Avoid release to the environment. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected. Follow all SOS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep away from food products during use and storage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Incompatible Materials or Ignition Sources: Stable under recommended storage conditions. Avoid water, air humidity, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition - No smoking. This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks. The user must be sure to dissipate static charge by careful bonding and grounding of all equipment, and personnel involved in fluid transfer should conduct continuity checks to prove effectiveness of bonding and grounding. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines; flame arrestors in vent lines. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous Component	PEL	STEL	TWAs
Isophorondiamine-isobutyraldimine CAS 54914-37-3	No Data Available	No Data Available	No Data Available

Engineering Measures/Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines. A safety shower and eye wash fountain should be

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readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and to prevent off-gases from entering the work place.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and drinking, smoking or using the lavatory and at the end of the working period. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Respiratory: In case of inadequate ventilation, wear respiratory protection. 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. Use positive pressure supplied air respirator when airborne concentrations are not known, when airborne levels are 10 times the appropriate TLV, and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Contact health and safety professional or manufacturer for specific information.

Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield must be used if a splash hazard exists.

Hands: Use permeation resistant gloves such as butyl rubber, nitrile rubber, or neoprene.

Skin/Body: Wear rubber or plastic apron and permeation resistant clothing, chemical-resistant gloves, and long-sleeved shirts, and pants. Remove and wash contaminated clothing before re-use.

General Industrial Hygiene Considerations: Keep away from food and drink. Wash hands and face after use. Educate and train workers in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Follow all label instructions.

Key to Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygiene
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
MSHA	Mine Safety and Health Administration
TWA	Time-Weighted Averages are based on 8h/day 40hr/week exposures
STEL	Short Term Exposure limits are based on 15 minute exposures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Colorless to Pale Yellow
Odor	Amine like
Boiling Point	302 C (576 F)
Specific Gravity	0.868 ± 0/1
Water Solubility	Not readily soluble
Flash Point	130 C (266 F) TOC
Bulk Density	No data available
Lower explosive limit	No data available
Upper explosive limit	No data available
NVW	100 ca

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Autoignition may occur with cotton waste or similar combustible materials.

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Conditions to Avoid: Humidity, water. .**Incompatible Materials:** Water, oxidizing agents, cotton waste or other combustible materials.**Hazardous Decomposition Products:** Decomposition products in hydrolysis/thermal decomposition: Isophorone diamine, isobutyraldehyde.**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute Toxicity	Isophorondiamine-isobutyraldimine CAS 54914-37-3	Oral LD50 Dermal LD50 Inhalation LD50	Rat Rabbit No data available	4,150 mg/kg. > 5,000 mg/kg
Skin Irritation	Skin sensitizer, sub-category 1A			
Eye Irritation	Irritating			
Inhalation	No data available			
Carcinogenicity	Ames Test, not mutagenic			

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50	Danio rerio: > 100 mg/l / 96 h
Toxicity in aquatic invertebrates	EC50 NOEC	Daphnia magna: 14.7 mg/l / 48 h Daphnia magna: 3 mg/l / 21 d
Toxicity to algae	EC50 NOEC	Desmodesmus subspicatus: > 100 mg/l Desmodesmus subspicatus: 7.6 mg/l
Toxicity to bacteria	EC50	Activated sludge: 302.4 mg/l / 3 h
Persistence and degradability	Exposure time: 28 d	Not readily biodegradable
Bioaccumulative potential	No data available	

SECTION 13: WASTE DISPOSAL

Waste Treatment Methods: Dispose in accordance with Federal, State, and Local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Precautions: Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

SECTION 14: Transport Information

	UN Number	UN Proper Shipping Name	Transport Hazard Class	Packing Group	Environmental Hazards
DOT	UN 2735	Amines, liquid, corrosive, n.o.s.(blocked diamine)	8	III	Not regulated
IMDG	UN 2735	Amines, liquid, corrosive, n.o.s.(blocked diamine)	8	III	Not regulated
IATA	UN 2735	Amines, liquid, corrosive, n.o.s.(blocked diamine)	8	III	Not regulated

Special Precautions for User

DOT: Keep separate from acids. Keep separate from foodstuffs, luxury foods, feedstuffs.

Air Transport (IATA-C/IATA-P): ERG-Code 8L Keep separate from foodstuffs, luxury foods, feedstuffs.

Sea Transport: (EmS): Keep separate from acids. Keep separate from foodstuffs, luxury foods, feedstuffs.

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Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code.

SECTION 15: REGULATORY INFORMATION

States Right to Know (MA, NJ, PA)

Isophorondiamine-isobutyraldimine

CAS 54914-37-3

Canada DSL Inventory

Isophorondiamine-isobutyraldimine

CAS 54914-37-3

This product is listed/registered with: Australia (AICS), Japan (MITI), Korea (KECI), Philippines (PICCS), China and New Zealand.

TSCA Inventory Status

All components are listed or exempt

US CERCLA/SARA

All components are listed or exempt

California Proposition 65 Information:

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.