## Material Data Safety Sheet Epoxy.com #695

## **SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

PRODUCT NAME COMPANTY ADDRESS CHEMICAL NAME CHEMICAL FAMILY

### Epoxy Systems, Inc. PE 20774 W Pennsylvania Ave Dunnellon, FL 34431 Benzoyl Peroxide/Dicyclohexyl Phthalate Organic Peroxide (Diacyl Peroxide)/ CH Phthalate Ester

Epoxy.com#695

PERS (24hr) (USA) 431 CAS NO. CHEMICAL FORMULA

-1

1-800-633-8253

94-36-0 (C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>O<sub>2</sub>

# **SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS Benzoyl Peroxide Dicyclohexyl Phthalate

CAS NO. 94-36-0 84-61-7 <u>%</u> 50 50

TELEPHONE 352-489-1666

# **SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION**

PHYSICAL HAZARDS	Organic Peroxide - Decomposition. Moderate fire hazard.		
HEALTH HAZARDS	Irritant.		
EXPOSURE LIMITS	OSHA PEL and ACGIH TWA is 5 mg/m <sup>3</sup> for benzoyl peroxide.		
ROUTES OF EXPOSURE			
Skin Absorption	May cause irritation with redness and pain, and skin sensitization in some individuals. Stinging or burning sensation may occur for a brief time after application to skin.		
Eye Contact	May cause mild to moderate irritation, redness, swelling, tearing and pain.		
Ingestion	May cause irritation to gastrointestinal tract.		
Inhalation	No toxic effects are expected by inhalation of fumes or vapors. Inhalation of powd		
	or dusts may be irritating to the upper respiratory tract. Decomposition products are toxic and inhalation of the products can produce life threatening health effects.		
EFFECTS OF OVER-EXPOSURE	May cause dermatitis, asthmatic effects, testicular atrophy, and vasodilation. Human mutation data reported.		

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

Skin	Immediately remove any contaminated clothing. Wash contaminated area
	thoroughly with soap and copious amounts of water for at least 15 minutes. If
	irritation or adverse symptoms develop, seek medical attention.
Eyes	Remove any contact lenses at once. Flush eyes with water for at least 15 minutes.
-	Ensure adequate flushing by separating the eyelids with fingers. If irritation or
	adverse symptoms develop, seek medical attention.
Ingestion	Contact a physician, hospital or Poison Control Center at once. DO NOT INDUCE
-	VOMITING. Give water only if victim is conscious and coherent.
Inhalation	Remove to fresh air, if coughing, breathing becomes labored, irritation develops or
	other symptoms develop, seek medical attention at once, even if symptoms develop
	several hours after the exposure.

## **SECTION 5 - FIRE-FIGHTING MEASURES**

FLASH POINT	Not applicable.		
FLAMMABLE LIMITS	Not applicable.		
AUTOIGNITION POINT	Not applicable.		
FIRE EXTINGUISHER MEDIA	Water from a safe distance - preferably with a fog nozzle. Do not use concentrated stream of water. In case of very small fires, other means such as carbon dioxide, foam or dry chemical extinguishers may be effective.		
SPECIAL FIRE FIGHTING	Fireman should be equipped with full protective clothing and SCBA's. In case of fire		
PROCEDURES	near storage area, cool the containers with water spray.		
UNUSUAL FIRE AND EXPLOSION	Container explosion may occur under fire conditions. May explode when heated. May		
HAZARDS	be shock-sensitive. Emits toxic fumes under fire conditions. Contact with other material may cause fire. Self-ignition is possible. May accelerate combustion.		

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE	Clean up spilled material immediately. Wet with water prior to transfer into disposal container. Cautiously pick up with non-sparking equipment. Transfer material into a clean DOT approved container for proper disposal. Wet again prior to sealing container. Keep ignition sources away from spill. Prevent spill material from entering drains, sewers, streams, etc. Wear necessary PPE as indicated by Section 8. Be sure to following all instructions in Section 7 when storing spilled material.	
SEC	TION 7 - HANDLING AND STORAGE	
HANDLING	Keep containers closed to prevent contamination. Rotate stock using the oldest material first. When necessary employ grounding, bonding, and explosion venting due to static discharge. Protect from shock, impact, heat, friction, or blows. Do not use near potential ignition sources (e.g., sparks, flames, smoking, etc.) Use necessary PPE as indicated by Section 8.	
STORAGE	Store in a cool, dry, well-ventilated and fire-resistant location. Shield containers from direct sunlight and maintain their temperature at less than 30°C (86°F). <u>DO NOT STORE WITH FOOD OR DRINK.</u> Keep away from potential ignition sources. See NFPA 432 for additional storage information/requirements.	
OTHER PRECAUTIONS	Avoid any conditions that may cause contamination. Do not leave material uncovered. Store in proper storage area and remove only as needed. Keep material in its original container. Do not return unused material to its original container. DO <u>NOT USE NEAR FOOD OR DRINK</u> .	
SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION		
VENTILATION RESPIRATORY PROTECTION	Mechanical, general. If airborne concentrations are expected to exceed acceptable levels wear a NIOSH/MSHA approved air-purifying respirator with appropriate dust filtration and if	

EYE PROTECTION HAND PROTECTION necessary an organic vapor cartridge or canister. When using respirators refer to OSHA's 29CFR 1910.134. Safety goggles recommended. Permanent eyewash is highly recommended. Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or neoprene. None

OTHER

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: **BOILING POINT:** VAPOR PRESSURE: VAPOR DENSITY: **EVAPORATION RATE:** % VOLATILE BY VOLUME: SOLUBILITY IN WATER:

White granular powdery solid with a faint odor. Decomposes. Not established. Not established. Not established. Not established. Insoluble.

**SPECIFIC GRAVITY:** FLASH POINT: FLAMMABLE LIMITS: SADT: pH:

~ .6 at 25°C Not applicable. Not applicable. 60°C (140°F) Not applicable.

## **SECTION 10 - STABILITY AND REACTIVITY**

STABILITY	Stable unless exposed to heat, flames and contamination.
MATERIALS TO AVOID	Dimethylaniline, cobalt napthenate and other promoters, accelerators, reducing agents, strong oxidizers, acids, alkalis, transition metal salts or any hot material.
CONDITIONS TO AVOID	Product contamination. Direct sunlight. Open flames. Prolonged storage above 86°F (30°C). Storage above SADT (60°C (140°F)). Storage near flammable or combustible materials.
HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS POLYMERIZATION	Dense white smoke of benzoic acid; phenyl benzoate; terphenyls; biphenyls: benzene and carbon dioxide. Decomposition products may be flammable. Will not occur.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

Benzoyl Peroxide

Hazard Data: Inhalation: Rat-- LC<sub>50</sub>: >24.3 mg/l/4hr Intraperitoneal: Mouse--LD<sub>50</sub>: 250 mg/kg Oral: Rat--LD<sub>50</sub>: 7710 mg/kg; Mouse--LD<sub>50</sub>: 5700 mg/kg Skin: Mammal (unspecified)--LD<sub>50</sub>: >1 gm/kg

### **Dicyclohexyl Phthalate**

Hazard Data:

**Oral:** Rat--LD<sub>50</sub>: >2000 mg/kg

### **SECTION 12 - ECOLOGICAL INFORMATION**

No data is available on the preparation itself. The product should be prevented from entering drains, sewers, streams, etc.

**Benzoyl Peroxide** 

Biological degradability: readily biodegradable (Closed Bottle Test OECD 0301D).
Partition coeff - K<sub>ow</sub>: 3160 (log K<sub>ow</sub> = 3.5) (experimental)
Bioconcentration factor (BCF): 92
Aquatic Toxicity
Fish: Poecilia reticulata--LC<sub>50</sub>: 2.0 mg/l/96hr
Daphnia: Daphnia magna--EC<sub>50</sub>: 2.91 mg/l/48hr
Algae: (Pseudokirchneriella subcapitata)--ErC<sub>50</sub>: 0.44 mg/l/72hr (water accommodated fraction) (Pseudokirchneriella subcapitata)--EbC<sub>50</sub>: 0.83 mg/l/72hr (water accommodated fraction)
Dicyclohexyl Phthalate
Biological degradability: 67% after 28. (MITI-test)
Partition coeff - K<sub>ow</sub>: 1.6x10<sup>6</sup> (log K<sub>ow</sub> = 6.2) (estimated) Bioconcentration factor (BCF): 12,000
Aquatic Toxicity

**Fish:** (Brach. rerio)--LC<sub>50</sub>: >10,000 mg/l/96hr **Algae:** (Activated sludge)--EC<sub>50</sub>: >10,000 mg/l

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved facility. Processing, use, or contamination of this product may change the waste management options.

Immediately dispose of waste material at a RCRA approved hazardous waste management facility in accordance with federal, state and local regulations. Under RCRA, 40 CFR 261.33, this material is hazardous waste number D003.

## **SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Name: DOT Hazard Class: UN/NA ID No.: DOT Packaging Group: ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE, 50%) 5.2

ing Group: PG II

5.2 (Organic Peroxide)

2004 ERG GUIDE NO:

Labels:

145

### **SECTION 15 - REGULATORY INFORMATION**

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

<b>Chemica</b>	l Name
Benzovl F	Peroxide

<u>CAS Number</u> 94-36-0

UN3106

Percent 50

#### Australian Inventory of Chemical Substances (AICS)

The ingredients in this product are listed in the Australian AICS Inventory.

Flammability

2

Reactivity

### Canadian Domestic Substances List (DSL)

The ingredients in this product are listed in the Canadian DSL Inventory.

### Korean Existing Chemicals List (ECL)

The ingredients in this product are listed in the Korean Existing Chemicals List.

### European Inventory of Existing Commercial Chemical Substances (EINECS)

The ingredients in this product are listed in the European EINECS Inventory.

#### Japanese Exiting and New Chemical Substances (ENCS)

The ingredients in this product are listed in the Japanese Exiting and New Chemical Substances List.

### Philippines Inventory of Chemicals and Chemical Substance (PICCS)

The ingredients in this product are listed in the Philippines Inventory of Chemicals and Chemical Substance.

### **Toxic Substances Control Act (TSCA)**

The ingredient in this product is listed in the US Toxic Substances Control Act Inventory.

#### Status of Carcinogicity

Not recognized as a carcinogen by the IARC, NTP or OSHA.

## **SECTION 16 - OTHER INFORMATION**

#### **VOC Information**

None of the ingredients in Epoxy.com Product #695 meet the definition of a VOC.

### NFPA 432 Organic Peroxide Classification

Class IV

### NEDA 704 Dating

NFPA 704 Ra	ating		HMIS Rating
<u>Health</u>	Flammability	Reactivity	<u>Health</u>
1	2	2	1

MSDS Reference: C-50 MSDS 0709

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