

Date Prepared: 10/03/03  
Supersedes: 3/12/02  
Product Name: **Polytops MMA Grout Catalyst**

# ChemMasters

## Material Safety Data Sheet

### 1. Chemical Product and Company Information

**Product Name:** Polytops MMA Grout Catalyst

**ChemMasters**  
300 Edwards Street  
Madison, Ohio 44057  
440-428-2105

In Case of Emergency Contact:  
CHEMTREC 800/424-9300

### 2. Composition / Information on Ingredients

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Exposure Limits</u>			<u>% by Wt</u>
		OSHA PEL/TWA	ACGIH TLV/TWA	NIOSH Rel/TWA	
Dibenzoyl Peroxide	94-36-0	5mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	50%
Dicyclohexyl Phthalate	84-61-7	NA	NA	NA	50%

### 3. Hazards Identification

#### **DANGER! ORGANIC PEROXIDE**

HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION.  
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY CAUSES ALLERGIC SKIN REACTION.

Toxic and flammable vapors may be produced under combustion. Isolate from sources of ignition.

#### **Potential Health Hazards - Acute**

Skin & Eye are the primary routes of exposure to this product.  
No toxic effects are expected to be caused by inhalation of fumes or vapors.  
Inhalation of powder, dust or fumes may be irritating to the upper respiratory tract.  
Eye contact may cause mild to moderate irritation.  
This product has a low order of toxicity. No significant toxic effect are expected.

#### **Potential Health Effects - Chronic:**

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated	ACGIH
	NO	NO	NO	NO

### 4. First Aid Measures

**Eye:** Immediately flush with plenty of clean water for at least 15 minutes. Seek medical attention if irritation occurs.

**Skin:** Remove contaminated clothing. Clean affected area(s) thoroughly with soap and water. Seek medical attention if irritation occurs.

**Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Ingestion:** Immediately give several glasses of water. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Give fluids again. Seek medical attention immediately.

Seek Medical Attention if Symptoms Persist.

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## 5. Fire Fighting Measures

**Flash Point** (method used): Not Determined (NFPA Flammable Rating - 2)

**Flammable Limits** (% volume in air): Lower = ND Upper = ND

**Auto Ignition Temperature:** No data available

**Extinguishing Media:** Extinguish with water fog, dry chemical, CO<sub>2</sub> or foam.

**Hazard Combustion Products:** Oxides of carbon and biphenyl (OSHA PEL = 1 mg/m<sup>3</sup>; ACGIH TLV = 1.3mg/m<sup>3</sup>) are produced during the decomposition of this product. Flammable gases and vapors may also be produced during thermal decomposition.

**Fire Fighting Instructions:** Firefighter s should wear full-face, self-contained breathing apparatus and impervious protective clothing. If possible move containers from the fire area. Cool containers exposed to fire with water. High pressure water may spread product from broken containers increasing contamination or fire hazard. Dike fire control water for later disposal. Do Not allow contaminated water to enter waterways. Toxic and flammable vapors may be produced under combustion. Isolate from sources of ignition and flash back.

## 6. Accidental Release Measures

**Spill:** Eliminate all ignition sources. Wear protective clothing. Handling equipment should be non-sparking. Avoid personal contact. Keep out of drains, sewers or waterways. Take up with absorbent material, place into non-leak containers and seal tightly for proper disposal.

## 7. Handling and Storage

**Handling:** Avoid inhalation of powder and personal contact with product. Static electricity may create a fire hazard. Always ground equipment and transfer containers. "Empty" containers can contain product residue. Keep away from sources of ignition and excessive heat.

**Storage:** Store containers tightly closed with adequate ventilation in a cool, dry area. Storage temperatures should not exceed 77°F (25°C). To insure against possible exothermic self-accelerating decomposition, storage temperatures must not exceed 131°F (55°C). Store away from reducing agents, strong oxidizers, acids, alkalis and accelerators. Containers should not be opened until ready for use. Use clean non-sparking equipment and tools when handling.

## 8. Exposure Controls / Personal Protection

Use a NIOSH-approved organic vapor respirator with dust, mist and fume filters to reduce potential for inhalation exposure if use conditions generate vapor, mist or aerosol and adequate ventilation (e.g. outdoor or well-ventilated area) is not available. Where exposure potential necessitates a higher level of protection, use a NIOSH-approved, positive-pressure/pressure-demand, air-supplied respirator. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the workshift) to assure breakthrough exposure does not occur.

**Wear** impervious gloves, chemical splash goggles and protective clothing to minimize skin contact.

## 9. Physical and Chemical Properties

**Appearance:** White granules

**Boiling Point:** ND

**Vapor Pressure** (mm/Hg): No data available

**Solubility in Water:** Insoluble

**Specific Gravity** (H<sub>2</sub>O = 1): NA

**Evaporation Rate** (n-Butyl Acetate = 1): ND

**Odor:** Slight odor

**Melting Point:** ND

**Vapor Density** (Air = 1): ND

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## 10. Stability and Reactivity

**Chemical Stability:** This product is stable at ambient temperatures but may decompose if exposed to temperatures above 131°F (55°C)

**Conditions to Avoid:** Heat, flame, contaminants.

**Incompatibility** (materials to avoid): Store away from reducing agents, strong oxidizers, acids, alkalis, accelerators, and transition metal salts.

**Hazardous Decomposition or By-products:** Decomposition products are oxides of carbon and biphenyl.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Conditions to avoid:** Temperatures should not exceed 140°F (60°C), the self-accelerating decomposition temperature. Decomposition can be expected to be hazardous and uncontrollable. Under no circumstances should this product be exposed to temperatures near or above the emergency temperature of 131°F (55°C). Contact with reducing agents, strong oxidizers, acids, alkalis, metal s, and accelerators will also result in hazardous decomposition.

## 11. Toxicological Information

Components	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
50% Dibenzoyl Peroxide	>5000 mg/kg	Not considered a skin irritant or corrosive	>24.3

Chronic dermal exposure effects for this product are not known. However, prolonged and/or repeated contact is expected to cause mild irritation, defatting, dermatitis and may cause sensitization. Likewise, Acute eye effects of this product have not been determined; however, a 78% granular dibenzoyl peroxide product was a slight irritant to rabbit eyes (5 minutes) and moderate irritant to rabbit eyes (24 hours).

## 12. Ecological Information

Possible land and water pollutant. No exact data available.

## 13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local regulations, contact the proper environmental authorities for disposal.

Under RCRA, 40 CFR 261.33, this material is hazardous waste number D003.

## 14. Transportation Information

**For U S National and International Shipments:**

**Shipping Description:** ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE, 50%), 5.2, UN 3106, II

**Emergency Response Guide Number:** 145

**Hazard Class:** Organic Peroxide 5.2

This product does not contain an Environmentally Hazardous Substance per 49CFR 172.101, Appendix A.

## 15. Regulatory Information

**SARA Title III: Section 313 reportable ingredients:**

Components	CAS #	Maximum %
Dibenzolperoxide	94-36-0	50%

**Dibenzoyl Peroxide** is also listed on the Massachusetts Substance List, New Jersey RTK Hazardous Substance List, Pennsylvania Hazardous Substance List, TSCA List, and the Canadian Domestic Substance List.

**Dicyclohexyl Phthalate**, 84-61-7, is on the TSCA List and the Canadian Domestic Substance List.

## 16. Other Information: MSDS Status: Revised entire MSDS on March 12, 2002

Industrial Abbreviation Legend on page 4 of this MSDS.

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**Industrial Abbreviation Legend**

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m <sup>3</sup>	milligrams per cubic meter
CAA	Clean Air Act (EPA)	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	NTP	National Toxicology Program
CNS	Central Nervous System	OSHA	Occupational Safety and Health Administration
CWA	Clean Water Act (EPA)	PEL	Permissible Exposure Limit
DOT	Department of Transportation	ppm	parts per million
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act (EPA)
g/kg	grams per kilogram	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
IARC	Internal Agency for Research on Cancer	STEL	Short-Term Exposure Limit, ACGIH terminology
LC50	Lethal Concentration in which 50% of the test animals are expected to die	TLV	Threshold Limit Value
LD50	Lethal Dose in which 50% of the test animals are expected to die	TWA	Time-Weighted Average

**THIS PRODUCT IS FORMULATED AND LABELED FOR INDUSTRIAL AND COMMERCIAL APPLICATION ONLY**

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