According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

#### Version: 1.0

Revision: 10/02/2023

# Trade Name: HERMETIC<sup>™</sup> Methyl Methacrylate (MMA) - BPO - Hardener Powder – Part B

# 1 Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifier

- Trade Name: HERMETIC™ Methyl Methacrylate (MMA) BPO Hardener Powder Part B
- 1.2 Synonyms : Dibenzoyl Peroxide, powder, 50% with dicyclohexyl phthalate

#### 1.3 Details of the supplier of the Safety Data Sheet Manufacturer:

Elite Crete Systems 1151 Transport Drive Valparaiso, IN 46383 Toll Free: 888.323.4445 Tel: (219) 465-7671 www.elitecrete.com

#### 1.4 Emergency telephone number:

CHEMTREC US DOMESTIC: (800-424-9300) CHEMTREC INTERNATIONAL: (703-527-3887)

# 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 and GHS:

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361fd, H411.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU.

#### **POTENTIAL HEALTH EFFECTS:**

Skin and eye contact are the primary routes of exposure to this product.

# Dust may be irritating to the respiratory tract and cause symptoms of bronchitis

# May Cause sensitization by skin contact

This product has a low order of toxicity. No significant toxic effects are expected DANGER!



H226 May cause fire

GHS07 exclamation mark Acute Tox. 2; H302: Harmful if swallowed. Skin Sensitization 1; H317: May cause an allergic skin reaction. STOT SE 3; H335: May cause respiratory irritation.

#### CARCINOGENICITY

OSHA: No

ACGIH: No

NTP: No I

IARC: No

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#### After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

#### After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.

#### After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

#### 4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material may cause irritation to skin and eyes. Product may cause an allergic skin reaction.

Chronic: Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis.Target Organs:Acute: Eye, SkinChronic: Skin

**Hazards:** Pre-existing skin or eye problems may be aggravated by exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

5 Firefighting measures FLAMMABILITY: Decomposition products may be flammable FLASH POINT: N/A AUTOIGNITION TEMPERATURE: N/A						
HMIS HAZARD CLASSIFICATION:						
HEALTH: 2	FLAMMABILITY 3	<b>REACTIVITY: 3</b>	PROTECTION: 0			

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Safety Data Sheet					
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Trade Name: HERMETIC™ Methyl Methacrylate (MMA) - BPO - Hardener Powder – Part B					
EXTINGUISHING MEDIA: WATER SPRAY, FOAM, SAND, DRY CHEMICAL POWDER, CO2					
SPECIAL FIREFIGHTING PROCEDURES: Evacuate all non-essential personnel. Extinguish a small fire with powder or carbon dioxide then apply water to prevent reignition. Cool closed containers with water. Water used to extinguish a fire should not be allowed to enter the drainage system or water courses. After a fire, ventilate thoroughly the area and soak with water, clean the walls and metallic surfaces.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: CAUTION: reignition may occur! Decomposition under effect of heating. If involved in a fire, it will support combustion. Dust explosion hazard. Vapors may form explosive mixtures with air. In case of fire and/or explosion, do not breath fumes. HAZARDOUS DECOMPOSITION PRODUCTS: CO2, Carbon monoxide, Benzoic Acid, Benzene					
6 Accidental release measures					
6.1 Personal precautions, protective equipment and emergency procedures: Personnel should be trained for spill response operations.					
6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.					
6.3 Methods and material for containment and cleaning up: Evacuate area. Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up spilled material with an absorbent material and pick up and place in an appropriate waste container for disposal. Do not mix with other wastes. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).					
7 Handling and storage					
7.1 Precautions for safe handling					
Keep away from ALL sources of ignition-NO smoking. Flammable liquid					
Explosive mixtures may occur at temperatures at or above flashpoint. Take action to prevent static discharges. Fire fighting must be carried out at a safe distance. Cool endangered containers with water					
As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing					

7.2 Conditions for safe storage, including any incompatibilities Storage:

#### Requirements to be met by storerooms and receptacles:

Store between 10 and 32 OC (45 - 90°F) and avoid contact with skin and eyes. Keep away from **all** sources of ignition. Keep away from heat, fire, sparks, and static sources of possible ignition. Ground all transfer equipment. Good general housekeeping procedure should be followed. Do not eat drink or smoke while using the material. Emergency showers should be readily available. Material may partially freeze in cold temperatures which will result in crystals and haziness. If this occurs rewarm and homogenize. Avoid contact with skin eyes. Vapors may irritate eyes and will irritate the skin. Use only with good ventilation and PPE. Keep container closed when not in use.

#### 7.3 Specific end use(s): No information

immediately.

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8 Exposure controls/personal protect	acrylate (MMA) - BPO - Hardener Powder – Part B
	ction
	<b>nical facilities:</b> osure levels are maintained below the limits provided above. orne vapor. Ensure eyewash/safety shower stations are
8.1 Control parameters Ingredients with limit values that require Currently, International exposure limits are check with competent authority in each co	e not established for the components of this product. Please
8.2 Exposure controls	, , , , , , , , , , , , , , , , , , , ,
Personal protective equipment:	
complying with OSHA regulations found in 29 ( Canada, or standards of EU member states (in	es: onal Protective Equipment is provided to assist employers in CFR Subpart I (beginning at 1910.132) or equivalent standard of ocluding EN 149 for respiratory PPE, and EN 166 for face/eye nce applicable regulations and standards for relevant details.
applicable. If necessary, use only respirate	contaminant concentrations below guidelines listed above, if ory protection authorized in the U.S. Federal OSHA 1910.134), equivalent U.S. State standards, Canadian CSA rd EN149, or EU member states.
<b>Protection of hands:</b> Use chemical resistar OSHA 29 CFR 1910.138 or appropriate St	nt gloves to prevent skin contact. If necessary, refer to U.S. tandards of Canada.
Protective gloves	
Material of gloves: The selection of suitable gloves does not o varies from manufacturer to manufacturer.	only depend on the material, but also on the quality, and
Penetration time of glove material: The exact break through time has to be de NOT exceed the breakthrough time set by	etermined by the manufacturer of the protective gloves. DO
	es or chemical goggles as appropriate to prevent eye contact. 1910.133 or appropriate Canadian Standards.
	nt contact (e.g. lab coat, overalls). If necessary, refer to opriate Standards of the EU, Australian Standards, or releva
9 Physical and chemical properties	
9.1 Information on basic physical and chen General Information	nical properties
Appearance: Form:	White powder with faint odor
Color:	white
Odor: Odor threshold:	Faint odor Not Available
pH-value:	Not Available

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Trade Name: HERMETIC™ Methyl Methacrylate (MMA) - BPO - Hardener Powder – Part B Change in condition freezing point: N/A Boiling point/Boiling range: N/A decomposes N/A Flash point: Flammability (solid, gaseous): No data available Auto/Self-ignition temperature: Not classified as self heating **Decomposition temperature:** Decomposition under effect of heating Self-igniting: Not classified as self heating Danger of explosion: See section 5 **Melting Point:** Decomposes prior to melting Vapor pressure at 25 °C: N/A Density at 20°C: 10.24 lbs. per gallon, **Relative density:** No data available Vapor density: 68°F 20°C **Evaporation rate:** N/A Solubility in / Miscibility with Water: Insoluble @ 68°F/20°C Specific Gravity 20oC: (Water = 1): 1.23 Viscosity: Dynamic: N/A Kinematic: N/A Solvent content: No data available Organic solvents: No data available VOC (EC) No data available 9.2 Other information

### **10 Stability and reactivity**

#### 10.1 Reactivity no data available

- 10.2 Chemical stability SADT: (Self accelerating decomposition temperature) is the lowest temperature as wich self-accelerating decomposition may occur with a substance in the packaging used in transport. A dangerous self-accelerating decomposition reaction and under certain circumstances, explosion or fire can be caused by thermal decomposition at the above the following temperature: 131°F/55°C. Contact with incompatible substances can cause decomposition at or below the SADT 131°F/55°C. Thermal decomposition / conditions to be avoided: When heated to decomposition this product produces noxious gases such as CO, CO2, hydrocarbons and soot. And can explode
- 10.3 Hazardous Polymerization: Polymerization does not occur
- **10.4 Conditions to avoid (STABILITY):** store at or below 77° F/ 25°C. avoid shock or friction, confinement must be avoided
- **10.5 Incompatible materials to avoid:** Avoid contact with rust, iron, copper. Contact with incompatible materials such as acids, alkalies, heavy metals, and reducing agents will result in hazardous decomposition. Do not mix with peroxide accellerators.Use only stainless steel 316, PVC, polyethylene or glass lined equipment.
- **10.6 Hazardous decomposition products:** Will not occur when used as directed

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#### **11 Toxicological information**

11.1 Information on toxicological effects: No experimental toxicological data on the preparation as such available. The Following data are applicable to the ingredient(s) listed below.

Dibenzoyl peroxide, 78%

Acute toxicity: Oral LD50

Rat >5000 mg/kg

Inhalation LC50

Rat > 24.3 mg/l;4 hrs. exposure time max. attainable concentration.

Irritation:

Skin: NON IRRITATING (4 HOURS EXPOSURE TIME)

**EYE: Moderately irritating** 

Sensitization: Sensitization possible by skin contact.

Genotoxicity: Ames test; No mutagenic

**Reproductive toxicity information:** 

No information concerning the effects of this product and its components on the human reproduction system.

#### **12 Ecological information**

12.1 No experimental ecological data are availableon thepreparation as such. The following data are applicable to the ingredient(s) listed below.

Dibenzoyl peroxide 78%

Ecotoxicity:

Fish: acute toxicity, 96-LC50 = 2.0mg/l. (poecilia reticulate.)

Daphnia: 48 h EC560: 2.91mg/l

Bacteria: activated sludge respiration inhibition test EC50 = 35 mg/l

Fate

Degradation biotic: readily biodegradable (closed bottle test)

### **13 Disposal considerations**

#### 13.1 Waste treatment methods

#### **Recommendations:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

### RCRA WASTE CODE: None Listed

EU WASTE CODE: Not Listed

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14 Transport information	
14.1 UN-Number DOT: CAN:ADN: ADR: IATA: CLASS: PACKING GROUP LABEL STATEMENT TREM-Card or ERG number: This product does not contain an environmentally hazardous substance 49 CFR 172.101, Appendix A	UN 3106 Organic Peroxide Type D, Solid (Dibenzoyl peroxide, 50%) 5.2 Il Organic peroxide 145
14.2 WATER TRANSPORTATION UN proper shipping name	Organic Peroxide Type D, Solid (Dibenzoyl peroxide,
	50%)
UN-Number CLASS PACKING GROUP LABEL STATEMENTS : EMS CODE MARINE POLUTANT	50%) Un 3106 5.2 Il Organic peroxide F-J, S-R No

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#### 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. **United States (USA)** 

Product and or components listed be4low are subje3ct of the following:

#### **Dibenzoyl peroxide**

Massachusetts Substance List	yes
New Jersey R-T-K Hazard. Sub.	yes
PENN. Hazardous Substance List	yes
SARA Title III, Section 313	yes
Toxic Subst. Cont. Act-Listed	yes
Domestic Substance List Canada	yes
Dicyclohexyl phthalate	
Toxic Substance Cont. Act-listed	yes
Domestic Substance list Canada	yes

# **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any speci product features and shall not establish a legally valid contractual relationship.

#### **Relevant phrases:**

H312: Harmful in contact with skin

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

R21: Harmful in contact with skin

R34: Causes burns

R43: May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation.

IATA: International Air Transport Association.

ACGIH: American Conference of Governmental Industrial Hygienists. EINECS: European Inventory of Existing Commercial Chemical Substances.

- ELINCS: European List of Notified Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society). NFPA: National Fire Protection Association (USA).

- HMIS: Hazardous Materials Identification System (USA).
- LC50: Lethal concentration, 50 percent.
- LD50: Lethal dose, 50 percent.