

**AMERICAN INTERNATIONAL INDUSTRIES**

2220 GASPAR AVENUE  
LOS ANGELES, CA 90040  
CHEM-TEL: (800) 255-3924

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** EzFlow Gemstone Colored Powder (All Shades)**DATE:** 12/19/2003**REV.** NEW**Section 1. Material Identification and Information****Hazardous Ingredients:**

Component	CAS #	%	TOXICOLOGICAL DATA
Methyl Methacrylate Monomer	80-62-6	60-100%	OSHA PEL TWA: 100ppm ACGIH TVL/TWA: 100ppm
Ethyl Methacrylate Monomer	97-63-2	60-100%	OSHA PEL TWA: 100ppm ACGIH TVL/TWA: 100ppm

**Section 2. Physical / Chemical Characteristics**

<b>Appearance:</b>	Fine White Powder	<b>Specific Gravity:</b>	1.25
<b>Odor:</b>	Faint Odor in Bulk		(H <sub>2</sub> O = 1)
<b>Boiling Point:</b>	N/A	<b>Viscosity:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Evaporation Rate:</b>	3.0
(mm Hg and Temperature)			(BuAc = 1)
<b>Vapor Density:</b>	N/A	<b>Solubility in Water:</b>	Insoluble
(Air = 1)		<b>Percent Volatile:</b>	N/A
			(W/W%)

**Section 3. Fire and Explosion Hazard Data**

<b>Flash Point and Method Used:</b>	304°C, 580°F
<b>Auto-Ignition Temperature:</b>	None Established
<b>Flammability Limits in Air % by Volume:</b>	<b>LEL:</b> N/A <b>UEL:</b> N/A
<b>Extinguisher Media:</b>	Water, carbon dioxide, dry chemical.
<b>Fire and Explosion Hazards:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>Special Fire Fighting Procedures:</b>	Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.
<b>Explosion Hazard:</b>	Firefighters should wear self-contained breathing apparatus.
<b>Sensitive to Mechanical Impact:</b>	No
<b>Sensitive to Static Discharge:</b>	No

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Strong oxidizing agents.

**Hazardous Decomposition:**

Methacrylate Monomer and oxides of carbon when burned.

**Hazardous Polymerization:**☐ May Occur ☒ Will Not Occur**Section 5. Health Hazard Data****Primary Routes of Entry:**☒ Eye Contact ☒ Skin Absorption ☒ Inhalation ☐ Not Hazardous**Carcinogen Listed In:**☐ NTP ☐ IARC Monograph ☐ OSHA ☒ Not Listed**Health Hazards:**

For Methyl Methacrylate:

Acute: Eye Contact:	May irritate.
Inhalation:	May irritate.
Skin Contact:	May cause rashes.
Chronic: Eye Contact:	May cause eye corrosion and permanent injury.
Liver & Kidneys:	May cause changes in liver and kidney function or damage.
Nervous System:	Repeated and prolonged over exposure may cause permanent damage.
Skin Contact:	May cause allergic skin rashes.
Symptoms:	Headaches, nausea, staggering gait, confusion, drowsiness and unconsciousness.

For Ethyl Methacrylate:

Acute: Eye Contact:	Eye contact may cause irritation with discomfort, tearing, or blurring of vision.
Inhalation:	Inhalation may cause irritation of the respiratory tract with coughing, of nonspecific discomfort, such as nausea, headache and or weakness.
Skin Contact:	Effects in humans include skin irritation with discomfort or allergic skin rashes.
Ingestion:	Ingestion may cause anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness.
Symptoms:	May include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
Chronic: Skin:	May cause allergic skin rashes.
Animal Studies:	Administered lethal oral doses include weakness, labored and irregular respiration, drop in arterial blood pressure and coma.

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Eye Contact:	Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.
Skin Contact:	Wash with soap and water. Get medical help if discomfort persists.
Inhalation:	Remove to fresh air. Get medical help if discomfort persists.
Ingestion:	Rinse mouth out with water. Do not induce vomiting. Call doctor if amount was large.
Treatment:	Treat symptoms after thorough decontamination.

**Section 6. Control and Protective Measures****Respiratory Protections (Specific Type):**

Use type for Particulates Not Otherwise Classified, if needed.

**Protective Gloves:**

Impervious, nitrile, if hot plastic is handled.

**Eye Protection:**

Safety glasses or chemical splash goggles.

**Ventilation to be Used:**

Use good, local exhaust at processing equipment, including buggers, sanders, grinders and polishers.

**Other Protective Clothing and Equipment:**

Provide eyewash, safety shower and impervious clothing are recommended. High temperature processing equipment should be well ventilated.

**Industrial Hygienic Practices:**

Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

**Section 7. Precautions for Safe Handling and Use / Leak Procedures****Accidental Release Measures:**

Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills.

**Waste Disposal Methods:**

Dispose in a landfill or incinerate according to Federal, State, and Local regulations

**Disposal of Empty Containers:**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. It is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

**Precautions to be taken in Handling and Storing:**

Use in well ventilated areas. Wear gloves when handling powder. Store in cool dry place. Keep container closed to prevent water absorption and contamination.

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**Target Organs:** Methyl Methacrylate: Nose, Liver, and Kidneys  
Ethyl Methacrylate: None

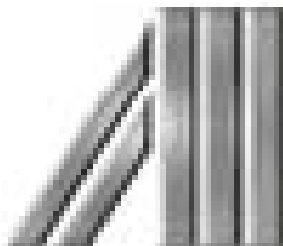
**Mutagenicity Data:** Methyl Methacrylate:  
Ovary Hamster: Cytogenic Analysis: 1600mg/L  
Inhalation Rat: Cytogenic Analysis: 4mg/m<sup>3</sup>/16W  
Lymphocyte Mouse: Gene Mutation in Mammalian Cells: 704mg/L  
Lymphocyte Mouse: Microsomal Assay: 500mg/L  
Ovary Hamster: Sister Chromatid Exchange: 1500mg/L  
Ethyl Methacrylate: None Listed.

**Reproductive Toxicity Data:**

Methyl Methacrylate:  
Inhalation Rat: TC<sub>L0</sub>: 109gm/m<sup>3</sup>/17M  
Inhalation Rat: TC<sub>L0</sub>: 109gm/m<sup>3</sup>/54M, 6-15 days of pregnancy.  
Inhalation Rat: TC<sub>L0</sub>: 54gm/m<sup>3</sup>/24H, 8 weeks of pregnancy.  
Inhalation Rat: TC<sub>L0</sub>: 4480gm/m<sup>3</sup>/2H, 6-18 days of pregnancy.  
Intraperitoneal Rat: TC<sub>L0</sub>: 405mg/kg  
Intraperitoneal Rat: TC<sub>L0</sub>: 801mg/kg  
Ethyl Methacrylate:  
Intraperitoneal Rat: TD<sub>L0</sub>: 735mg/kg, 5-15D pregnant.  
Intraperitoneal Rat: TD<sub>L0</sub>: 366mg/kg, 5-15D pregnant.

**Toxicity Data:**

Methyl Methacrylate:  
Acute Oral Rat: LD<sub>50</sub>: 7790mg/kg  
Acute Dermal Rabbit: LD<sub>50</sub>: 35,500mg/kg  
Acute Inhalation Rat: LC<sub>50</sub>: >12,500 to 16,500ppm for 0.5 hours  
Inhalation Human: TC<sub>L0</sub>: 125ppm  
Inhalation Human: TC<sub>L0</sub>: 60mg/m<sup>3</sup>  
Human Patch Test: Approximate one-third of subjects developed mild redness at the site of application. Twenty percent showed sensitivity when tested 10 days later.  
Ethyl Methacrylate:  
Inhalation Rat: LC<sub>50</sub>: 8300ppm/4H  
Intraperitoneal Mouse: LD<sub>50</sub>: 1369mg/kg  
Intraperitoneal Rat: LD<sub>50</sub>: 1223mg/kg  
Oral Mouse: LD<sub>50</sub>: 7836mg/kg  
Oral Rat: LD<sub>50</sub>: 14800mg/kg  
Oral Rabbit: LD<sub>50</sub>: 3630mg/kg  
Subcutaneous Rat: LD<sub>L0</sub>: 25gm/kg

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**Aquatic Toxicity:** Methyl Methacrylate:  
Flathead Minnows: TLm<sub>96H</sub>: 100-1000ppm  
Goldfish: TLm<sub>24H</sub>: 420ppm  
Bluegills: TLm<sub>24H</sub>: 368ppm  
Ethyl Methacrylate: None Listed.

**Section 10. Transportation****DOT/UN Shipping Name:** Synthetic Gum Resin Granular, Noibn**NMFC Item #:** 46030**Schedule B:** 3906.90.6000**IMDG Class:** 3.2**IMDG PG:** 3226**CERLA RQ:** Methyl Methacrylate Monomer: 1000lb  
Ethyl Methacrylate Monomer: 1000lb**Section 11. Regulatory Information****Methyl Methacrylate Monomer Listing:**

TSCA, EINECS, CERCLA, SARA III: 313, CAA, RCRA (U162), PA, NJ, WHMIS, DAK (50ppm)

**Ethyl Methacrylate Monomer Listing:**

TSCA, EINECS, CERCLA, SARA 313, CAA, RCRA (U118), PA, NJ, WHMIS

**TSCA:** For use in FDA regulated products only.**Canadian WHMIS:** This product has been classified in accordance with the hazardous criteria of the CPR and the MSDS contains all the information required by the CPR.**Section 12. Other Information****Hazardous Material Identification System (HMIS) Rating:**

Health: 1  
Flammability: 1  
Reactivity: 0

**Personal Protective Equipment:** Gloves and Safety Glasses or Chemical Splash Goggles**National Fire Protection Association (NFPA) Hazard Identification Rating:**

Health: 1  
Flammability: 1  
Reactivity: 0