

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:

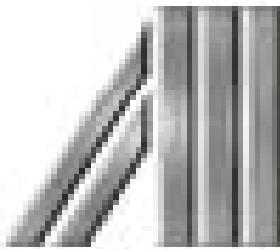
Component	CAS #	%	TOXICOLOGICAL DATA
Methyl Methacrylate Monomer	80-62-6	60-100%	OSHA PEL TWA: 100ppm ACGIH TVL/TWA: 100ppm
Ethyl Methacrylate Monomer	97-63-2	60-100%	OSHA PEL TWA: 100ppm ACGIH TVL/TWA: 100ppm

Section 2. Physical / Chemical Characteristics

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

Section 3. Fire and Explosion Hazard Data

Flash Point and Method Used:	304°C, 580°F
Auto-Ignition Temperature:	None Established
Flammability Limits in Air % by Volume:	LEL: N/A UEL: N/A
Extinguisher Media:	Water, carbon dioxide, dry chemical.
Fire and Explosion Hazards:	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
Special Fire Fighting Procedures:	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.
Explosion Hazard:	Firefighters should wear self-contained breathing apparatus.
Sensitive to Mechanical Impact:	No
Sensitive to Static Discharge:	No



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Section 4. Reactivity Hazard Data

Stability: Stable Unstable

Conditions to Avoid: Heating above 240°C, 464°F.

Incompatibility (Materials to Avoid):

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

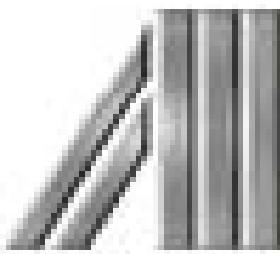
Health Hazards:

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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Emergency First Aid Procedures:

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 articulates at a minimum when cleaning up spills.

Waste Disposal Methods:

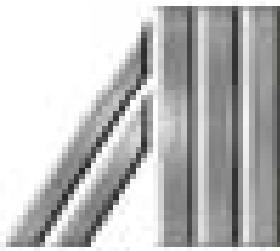
Dispose in a landfill or incinerate according to Federal, State, and Local regulations

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 contains. 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 Storaging:

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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Section 8. Toxicological Properties

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/m³/16W

 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_{L0}: 109gm/m³/17M

 Inhalation Rat: TC_{L0}: 109gm/m³/54M, 6-15 days of pregnancy.

 Inhalation Rat: TC_{L0}: 54gm/m³/24H, 8 weeks of pregnancy.

 Inhalation Rat: TC_{L0}: 4480gm/m³/2H, 6-18 days of pregnancy.

 Intraperitoneal Rat: TC_{L0}: 405mg/kg

 Intraperitoneal Rat: TC_{L0}: 801mg/kg

Ethyl Methacrylate:

 Intraperitoneal Rat: TD_{L0}: 735mg/kg, 5-15D pregnant.

 Intraperitoneal Rat: TD_{L0}: 366mg/kg, 5-15D pregnant.

Toxicity Data:

Methyl Methacrylate:

 Acute Oral Rat: LD₅₀: 7790mg/kg

 Acute Dermal Rabbit: LD₅₀: 35,500mg/kg

 Acute Inhalation Rat: LC₅₀: >12,500 to 16,500ppm for 0.5 hours

 Inhalation Human: TC_{L0}: 125ppm

 Inhalation Human: TC_{L0}: 60mg/m³

 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: LC₅₀: 8300ppm/4H

 Intraperitoneal Mouse: LD₅₀: 1369mg/kg

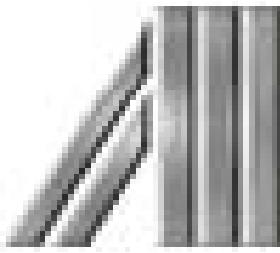
 Intraperitoneal Rat: LD₅₀: 1223mg/kg

 Oral Mouse: LD₅₀: 7836mg/kg

 Oral Rat: LD₅₀: 14800mg/kg

 Oral Rabbit: LD₅₀: 3630mg/kg

 Subcutaneous Rat: LD_{L0}: 25gm/kg



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Section 9. Ecological Information

Aquatic Toxicity: Methyl Methacrylate:
Flathead Minnows: TL_m_{96H}: 100-1000ppm
Goldfish: TL_m_{24H}: 420ppm
Bluegills: TL_m_{24H}: 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