

MATERIAL SAFETY DATA SHEET

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Section 1. Chemical Product and Company Identification

Product Code FMPX1-100"1	
Product Name FMP, FORMULA I POWDER, POLYETHYL METHACRYLATE	
Manufacturer's Name Mark V Laboratory, Inc.	Emergency Telephone Number CHEMTREC 800-424-9300
Address (Number, Street, City, State, and ZIP Code) 18 Kripes Road	Telephone Number For Information (860) 653-7201
Post Office Box 540	Date Prepared January 1, 2012
East Granby, Connecticut 06026	Signature of Preparer (optional)

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
POLY (ETHYL METHACRYLATE))	9003-42-3	>99	NE	NE
Particulates (Not Otherwise Classified)			NE	15mg/m3 8hr TWA
Total dust / respirable dust				

Section 3. Hazards Identification

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EMERGENCY OVERVIEW

Solid granules. May evolve irritating fumes on processing or overheating.

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POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Dust may cause irritation

INHALATION: **Unlikely** to be hazardous but dust or vapors may cause irritation.

SKIN CONTACT: **Unlikely** to cause skin irritation.

INGESTION: **Low** oral toxicity.

CHRONIC EFFECTS / CARCINOGENICITY: No evidence of adverse effects but adverse effects unlikely.

TERATOLOGY (BIRTH DEFECT) INFORMATION: No information but adverse effects unlikely.

REPRODUCTION INFORMATION: No information but adverse effects unlikely.

Product: Formula I Powder

Section 4. First Aid Measures

INHALATION: Remove patient from exposure. Obtain medical attention if ill effects occur.

EYE CONTACT: Remove particles by irrigating with eye wash or water, holding eyelids apart. Obtain medical attention.

SKIN CONTACT: Wash skin with soap and water

INGESTION: DO NOT induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.

NOTE TO PHYSICIAN: **Symptomatic** treatment and supportive therapy as indicated.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: 300c 572f

METHOD USED: ASTM D1929

FLAMMABLE LIMITS

LFL:

UFL:

EXTINGUISHING MEDIA: Water spray, Foam, Dry chemical, CO2.

FIRE & EXPLOSION HAZARDS: Combustible but not readily ignited. May form explosible Dust clouds. May decompose if heated above 200c. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors.

FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Caution - spillages may be slippery. Sweep up and shovel into waste drums or plastic bags. Wash the spillage area with water.

Section 7. Handling and Storage

Keep container in a clean, cool, dry area, away from heat sources. Natural ventilation is adequate.

Avoid contact with eyes. Avoid prolonged skin contact. Avoid inhalation of high concentrations of dusts. **SEE PROCESS HAZARDS SECTION 16**

Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: Normal use ventilation is adequate.

RESPIRATORY PROTECTION: An approved dust mask should be used if exposure to high levels of dust are likely.

SKIN PROTECTION: **Gloves**, long sleeved clothing due to nuisance particulate.

EYE PROTECTION: Safety glasses.

Product: Formula I Powder

Section 9. Physical and chemical Properties

APPEARANCE:	White	PHYSICAL STATE:	Beads
BOILING POINT:		SOLUBILITYINWATER:	Negligible
EVAPORATION RATE:		SPECIFIC GRAVITY:	1.11
FREEZING POINT:		VAPOR DENSITY:	
MELTING POINT:		VAPOR PRESSURE:	
MOLECULAR WEIGHT:		VISCOSITY:	
ODOR:	Typical "methacrylate"	% VOLATILE:	<1%
pH:			

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable at normal temperatures and storage conditions.**HAZARDOUS REACTIONS:** None known**HAZARDOUS DECOMPOSITION PRODUCTS:** Ethyl methacrylate**HAZARDOUS POLYMERIZATION:** Will not polymerize.

Section 11. Toxicological Information

EYE: Dust may cause irritation.**SKIN:** Unlikely to cause skin irritation**INGESTION:** Low oral toxicity.**INHALATION:** Unlikely to be hazardous by inhalation. High concentrations of dust may be irritant to the upper respiratory tract. High concentrations of vapor from hot operations may be harmful, cause irritation of the respiratory tract, and slight narcotic effects.**CHRONIC:** This material has been in use for many years with no evidence of adverse effects.

Section 12. Ecological Information

FATE and DISTRIBUTION: Solid with low volatility. Is essentially insoluble in water. The product has low potential for bioaccumulation. is predicted to have low mobility in soil.**PERSISTENCE and DEGRADATION:** Non-biodegradable in soil. No evidence of degradation.**TOXICITY:** Predicted to have low toxicity to aquatic organisms.**EFFLUENT TREATMENT:** Anticipated to be poorly removed in biological treatment processes.

Product: Formula I Powder

Section 13. Disposal Considerations

Considered to be non-hazardous. Consult local, state and federal guidelines.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: N/A
 TECHNICAL SHIPPING NAME: N/A
 D.O.T. HAZARD CLASS: N/A
 U.N. / N.A. NUMBER: N/A
 PRODUCT RQ (LBS): N/A
 D.O.T. LABEL: N/A
 D.O.T. PLACARD: N/A
 FREIGHT CLASS BULK: N/A
 FREIGHT CLASS PACKAGE: N/A
 PRODUCT LABEL: FMP1, 5,25,50,100 FXP1, 5,25,50,100

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: Yes

TSCA STATUS: No

CERCLA REPORTABLE QUANTITY: No

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No

SECTION 311/312 HAZARDOUS CATEGORIES: No

SECTION 313 TOXIC CHEMICALS: No

RCRA STATUS: No

CALIFORNIA PROPOSITION 65: No

Section 16. Other Information

MSDS STATUS:

Process Hazards: Care should be taken to prevent burns from contact with hot material. All polymers degrade to some extent if over heated, an effect which increases with increasing temperature. It is therefore impossible to be precise about which substances may be evolved. However, it is only the minor components which vary substantially.

NOTE: The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.