

MATERIAL SAFETY DATA SHEET

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Section 1. Chemical Product and Company Identification

Product Code FMLX32-320"1	
Product Name FML & FXL FORMULA I LIQUID, ISOBUTYL METHACRYLATE MONOMER	
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
Isobutyl Methacrylate Standard grade contains p-METHOXYPHENOL 4-1000 (ppm)	97-86-9 150-76-5	<99	NE	NE
Ethyl Alcohol	64-17-5	<1	1.000ppm	1.000ppm
N,N-Dimethyl-P-Toluidine	99-97-8	<.5	NE	NE
Methyl Isobutyl Ketone	108-10-1	<.5	50ppm	50ppm
Kerosene	8008-20-6	<.5	NE	NE

Section 3. Hazards Identification

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EMERGENCY OVERVIEW

Combustible. Hazardous polymerization may occur. Irritant by inhalation, in contact with Skin and eyes. May cause sensitization by skin contact.

WARNING Toxic! Harmful if swallowed, inhaled or absorbed thru skin. Causes skin and eye irritation. Combustible liquid and vapor. *SEE SECTION 16*

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POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Moderate irritant, causing moderate initial pain.

INHALATION: Irritant to the respiratory tract. High concentrations may lead to dizziness, headache and anesthetic effects.

SKIN CONTACT: May cause skin irritation and sensitization.

INGESTION: Causes irritation, a burning sensation of the mouth, throat and respiratory Tract. Causes abdominal pain.

CHRONIC EFFECTS / CARCINOGENICITY: None known. Unlikely to present carcinogenic hazard.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Some evidence of potential developmental toxicity but inadequate information is available to assess the teratogenic hazard. No adverse effects expected.

REPRODUCTION INFORMATION: No information available but no adverse effects expected.

Product: Formula I Liquid

RESPIRATORY PROTECTION: Use NIOSH/MSHA respirator. Use a positive pressure air supplied respirator where there is potential for uncontrolled release or exposure levels are unknown.

SKIN PROTECTION: Wear impervious clothing to prevent **ANY** contact with this product. Gloves, apron boots or whole body suit.

EYE PROTECTION: Safety glasses. Coverall chemical splash goggles or face shield are Recommended.

Section 9. Physical and chemical Properties

APPEARANCE:	Clear to yellowish	PHYSICAL STATE:	Liquid
BOILING POINT:	78c, 172f @760mm/Hg	SOLUBILITY IN WATER:	<0.05% @20c
EVAPORATION RATE:	0.5 (Butyl Acetate=1)	SPECIFIC GRAVITY:	0.896g/cc @15.5c
FREEZING POINT:	-34c, -29.2f	VAPOR DENSITY:	4.9 (Air=1)
MELTING POINT:		VAPOR PRESSURE:	2.4-4mm/Hg @20c
MOLECULAR WEIGHT:		VISCOSITY:	
ODOR:	Characteristic	% VOLATILE:	100%
pH:			

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: Incompatible with reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, smoke.

HAZARDOUS POLYMERIZATION: Polymerization can occur.

Section 11. Toxicological Information

EYE: Irritating to eyes.

SKIN: May cause sensitization by skin contact. Irritating to skin. Repeated and/or prolonged contact may cause dermatitis.

INGESTION: Low oral toxicity but ingestion may cause irritation of the gastrointestinal tract.

INHALATION: Irritating to respiratory system. High concentrations may lead to irritation of the respiratory tract, dizziness, headache, and anesthetic effects.

CHRONIC: This material has been used for many years with no evidence of adverse effects.

CARCINOGENICITY: Inadequate information available to assess carcinogenic hazard.

TETRATOGENIC: Some evidence of potential for developmental toxicity but inadequate information is available to assess the teratogenic hazard. By analogy it is unlikely that isobutyl Methacrylate represents a teratogenic hazard to man.

Product: Formula I Liquid

Section 12. Ecological Information

ENVIRONMENTAL FATE AND DISTRIBUTION: High tonnage material produced in wholly contained systems. Liquid with moderate volatility. Sparingly soluble in water. Moderate potential for bioaccumulation. Predicted to have moderate mobility in soil.

PERSISTENCE AND DEGRADATION: Readily biodegradable. 74% in 28 days.

TOXICITY: Very toxic to aquatic organisms.

EFFECT on EFFLUENT TREATMENT: This product is substantially removed in biological treatment processes.

Section 13. Disposal Considerations

Do not allow material to contaminate ground water systems. Incinerate in a facility which complies with Federal, State, and Local requirements. Do not incinerate in closed containers.

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

D.O.T. SHIPPING NAME: Flammable Liquid, N.O.S.
TECHNICAL SHIPPING NAME: Flammable Liquid, N.O.S. Mixture, (Isobutyl Methacrylate, stabilized, Ethyl Alcohol)
D.O.T. HAZARD CLASS: 3
U.N. / N.A. NUMBER: UN1993
PRODUCT RQ (LBS):
D.O.T. LABEL: Flammable Liquid
D.O.T. PLACARD: Flammable Liquid
FREIGHT CLASS BULK: N/A
FREIGHT CLASS PACKAGE: N/A
PRODUCT LABEL: Fml-16 - 640 Fxl-16 - 640

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

OSHA STATUS: Yes

TSCA STATUS: Yes

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: To be determined by user

CALIFORNIA PROPOSITION 65: No

Section 16. Other Information MSDS STATUS:

N,N-Dimethyl-P-Toluidine:

Harmful if inhaled. Causes irritation to eyes, skin and mucous membranes. Absorption of this product may lead to the formation of methemoglobin. Prolonged exposure to vapors or repeated skin exposure may affect the liver, central nervous system and the blood forming system. No known target organs.

Threshold Limited Value: RTECS no. XU5803000 Toxicity data: ipr-mus LD50: 212 mg/kg

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 the Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.