

## SAFETY DATA SHEET

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### Section 1. Chemical Product and Company Identification

Product Code  
ML32-640"1

Product Name  
MET-X LIQUID

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, 2018

East Granby, Connecticut 06026

Signature of Preparer (optional)

### Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Methyl Methacrylate	80-62-6	~100	410 mg/m3	410 mg/m3
<i>Standard grades contain inhibitors from among the following:</i>				
HYDROQUININE	123-31-9	4-1000ppm		
p-METHOXYPHENOL	150-76-5	4-1000ppm		
2,4-DIMETHYL-6-t-BUTYLPHENOL	1879-09-0	4-1000ppm		
OCTADECYL 3,5-DI-TERT-Butyl-4-HYDROXY CINNAMATE	2082-79-3	4-1000ppm		
Ethyl Alcohol	64-17-5	<1	1.000p pm	1.000ppm
N, N-Dimethyl-P-Toluidine	99-97-8	<1	NE	NE
Methyl Isobutyl Ketone	108-10-1	<. 5	50ppm	50ppm
Kerosene	8008-20-6	<. 5	NE	NE

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### EMERGENCY OVERVIEW

Regulated as a toxic chemical under Section 313 of Title III of the Superfund Amendments And Reauthorization Act of 1986 and CFR part 372.

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

**EYE CONTACT:** Liquid and vapors can cause moderate irritation.

**INHALATION:** **High** concentration is irritant to the respiratory tract and may cause dizziness, headache, and anesthetic effects.

**SKIN CONTACT:** **May** cause skin irritation.

**INGESTION:** **Causes** irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**CHRONIC EFFECTS / CARCINOGENICITY:** Prolonged or repeated exposure can cause liver, kidney, and heart damage. Unlikely to present a cancer hazard to man.

**TERATOLOGY (BIRTH DEFECT) INFORMATION:** **Developmental** toxicity observed in animal tests but only at toxic levels to the mother.

**REPRODUCTION INFORMATION:** No information available but no adverse reproductive effects are anticipated.

## 2. HAZARDS IDENTIFICATION

Hazard classification

Flammable liquid Category 3.  
Skin corrosion / irritation Category 2.  
Skin sensitization Category 1.  
Serious eye damage / eye irritation Category 2A.  
STOT - single exposure Category 3  
Hazardous to the aquatic environment - Acute hazard Category 1.

### Label elements



Symbol

Signal word

Warning

Hazard statement(s)

H226: Flammable liquid and vapor.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

Precautionary statement(s)

H400: Very toxic to aquatic life.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P261: Avoid breathing vapors.  
P264: Wash thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER/doctor if you feel unwell.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P362: Take off contaminated clothing and wash it before reuse.  
P370 + P378: In case of fire, use water spray, foam, dry powder or CO<sub>2</sub> for extinction.  
P391: Collect spillage.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.  
P501: Dispose of contents/container to hazardous waste in accordance with local, state or national legislation. Incinerate under approved controlled

Product: Met-X Liquid

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## Section 4. First Aid Measures

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**INHALATION:** Move to fresh air. Get medical attention.

**EYE CONTACT :**Immediately flush eyes with water for 15 minutes. Get medical attention.

**SKIN CONTACT :**Immediately wash with soap and water. Wash contaminated clothing.

**INGESTION:** **Do not induce vomiting.** Immediately give 2 glasses of water. Get medical attention.

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## Section 5. Fire Fighting Measures

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**FLAMMABLE PROPERTIES:**

FLASH POINT: 11.5c/52.7f

METHOD USED:

**FLAMMABLE LIMITS**

LFL: 2.1

UFL: 12.5

**EXTINGUISHING MEDIA:** Foam, CO2, dry chemical, water spray (by trained personnel)

**FIRE & EXPLOSION HAZARDS:** Fine mists are explosive below the flash point. Vapor forms explosive mixture with air. Vapors may travel to ignition sources and flash back. Sealed containers may rupture explosively.

**FIRE FIGHTING EQUIPMENT:** **Wear** self-contained breathing apparatus.

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## Section 6. Accidental Release Measures

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Evacuate personnel, ventilate. Remove sources of ignition. Dike spill. Prevent material from entering sewers, waterways, or low areas. Soak up with sand, oil dry or other absorbent non-combustible material.

Cleaned up material is a RCRA Hazardous Waste.

Product: Met-X Liquid

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## Section 7. Handling and Storage

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Do not breathe vapor or mist. Close container after each use. Ground container when pouring. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Store in a cool place. **Do not** expose to direct sunlight. Store in a well ventilated area.

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## Section 8. Exposure Controls / Personal Protection

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**ENGINEERING CONTROLS:** Keep container tightly closed. Use appropriate ventilation.

**RESPIRATORY PROTECTION:** Use a NIOSH/MSHA respirator with an organic vapor cartridge. Use a positive pressure air supplied respirator if the potential exists for an uncontrolled release.

**SKIN PROTECTION:** Wear impervious gloves, boots, and apron.

**EYE PROTECTION:** Safety glasses, goggles, face shield.

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## Section 9. Physical and chemical Properties

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<b>APPEARANCE:</b>	Clear, to slight yellow tint	<b>PHYSICAL STATE:</b>	Liquid
<b>BOILING POINT:</b>	100.5c @ 760mm/Hg 212.9f @ 760mm/Hg	<b>SOLUBILITY IN WATER:</b>	1.6 WT% (20c 68f)
<b>EVAPORATION RATE:</b>		<b>SPECIFIC GRAVITY:</b>	
<b>FREEZING POINT:</b>		<b>VAPOR DENSITY:</b>	3.5 (air=1)
<b>MELTING POINT:</b>	-48C/54F	<b>VAPOR PRESSURE:</b>	28mm/Hg (20c 68f)
<b>MOLECULAR WEIGHT:</b>		<b>VISCOSITY:</b>	
<b>ODOR:</b>	Strong and acrid	<b>% VOLATILE:</b>	100
<b>pH:</b>			

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## Section 10. Stability and Reactivity

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**CHEMICAL STABILITY:** Unstable with heat

**INCOMPATIBILITY:** Oxidizing or reducing agents. Material can soften paints and rubber.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sub>2</sub>, smoke

**HAZARDOUS POLYMERIZATION:** May occur. Caused by; excessive heat, storage in absence of Inhibitor, inadvertent addition of catalyst, contamination

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## Section 11. Toxicological Information

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**EYE:** High vapor concentration will cause irritation.

**SKIN:** Irritating to skin. May cause sensitization by contact, repeated or prolonged contact may cause dermatitis.

**INGESTION:** Low oral toxicity. May cause irritation of the gastrointestinal tract.

**INHALATION:** Irritating to the respiratory system.

Product: Met-X Liquid

**CHRONIC:** Repeated exposure to high levels produces adverse effects on the heart, lungs, Liver and kidneys. Repeated exposure of animals by inhalation to levels at or above the Occupational exposure level produce adverse effects on the nasal epithelium (levels of 100 and 400 ppm) There is no reason to believe that methyl methacralate represents a carcinogenic or mutagenic hazard to man based upon evidence from well conducted animal studies, relevant mutagenicity studies and adequate epidemiologist studies in relevant cohorts. Recent studies in animals have shown that high exposures do not produce embryo or feototoxic nor tetratogenic effects in the presence of maternal toxicity. None of these effects are likely to occur in humans provided exposure is maintained at or below the occupational exposure limit.

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## Section 12. Ecological Information

**ENVIRONMENTAL FATE and DISTRIBUTION:** High tonnage material produced in wholly contained systems. Liquid with moderate volatility. Sparingly soluble in water. Product has low potential for bioaccumulation. The product is predicted to have high mobility in soil.

**PERSISTENCE and DEGRADATION:** Not readily biodegradable. Chemical oxygen demand (COD) 88%(28days). Inherent biodegradation: Dissolved Organic Carbon Removal (DOC removal) >95%(28Days). Low toxicity to fish, low toxicity to algae, harmful to aquatic invertebrates.

**EFFECT on EFFLUENT TREATMENT:** Product is substantially removed in biological treatment processes.

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## Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. Do not flush to surface water or sanitary sewer systems. Do not allow material to contaminate ground water systems.

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## 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 (Methyl Methacrylate Monomer Inhibited, Ethyl Alcohol, Mixture)  
**D.O.T. HAZARD CLASS:** 3  
**U.N. / N.A. NUMBER:** UN1993  
**PRODUCT RQ (LBS):** 1000 lb.  
**D.O.T. LABEL:** Flammable  
**D.O.T. PLACARD:** NA  
**FREIGHT CLASS BULK:** NA  
**FREIGHT CLASS PACKAGE:** NA  
**PRODUCT LABEL:** ML-32, ML-128, ML-640

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

**OSHA STATUS:** Yes

**TSCA STATUS:** Yes

**CERCLA REPORTABLE QUANTITY:** Yes

**SARA TITLE III:**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES:** Yes

**SECTION 311/312 HAZARDOUS CATEGORIES:** Yes

**SECTION 313 TOXIC CHEMICALS:** Yes

**RCRA STATUS:** Yes to be determined by user

**CALIFORNIA PROPOSITION 65:** No

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## Section 16. Other Information

**MSDS STATUS:**

The information contained herein relates only to the specific material identified. The manufacturer believes that such information is accurate and reliable as of the date of this Material Safety Data Sheet, made as to the accuracy, reliability, or completeness of the information. The manufacturer urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

# **MARK V LAB**