

# MATERIAL SAFETY DATA SHEET

Forms published by WindowChem (707)864-0845

## Section 1. Chemical Product and Company Identification

Product Code MS145W"1	
Product Name MS LIQUID MOLD RELEASE	
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 July 1, 2013
East Granby, Connecticut 06026	Signature of Preparer (optional)

## Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Telomer of Tetrafluoroethylene	9002-84-0	2.0	N/E	N/E
Water	7732-18-5	97.6	N/E	N/E
Alkyl Polyglycol Ether surfactants	68439-46-3	0.2	N/E	N/E
		0.2	N/A	N/A

## Section 3. Hazards Identification

☆☆

### EMERGENCY OVERVIEW

☆☆

#### POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** Moderate eye irritant.

**INHALATION:** May cause lung irritation and pulmonary edema. May cause fume fever, a temporary flu-like illness accompanied by fever, chills and sometimes cough of approximately 24-hour duration. Repeated episodes may cause lung damage.

**SKIN CONTACT:** Moderate skin irritant.

**INGESTION:** Although oral toxicity is low, ingestion should be avoided

---

**Section 4. First Aid Measures**

---

**INHALATION:** Immediately remove to fresh air. If not breathing, give artificial respiration. Pyrolyzed Fume inhalation: Normal recovery 24 hours

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes.

**SKIN CONTACT:** If molten material gets on skin, cool rapidly with water. **Do not** attempt to remove material from skin. Obtain medical attention for thermal burn.

**INGESTION:** Not likely to be hazardous by ingestion.

---

**Section 5. Fire Fighting Measures**

---

**FLAMMABLE PROPERTIES:**

FLASH POINT: None METHOD USED : CC

**FLAMMABLE LIMITS** None Flammable

LFL : UFL:

**EXTINGUISHING MEDIA:** Water spray or fog, Foam, Dry chemical, Carbon Dioxide.

**FIRE & EXPLOSION HAZARDS:** Hazardous gases/vapors produced in fire are hydrogen fluoride (HF), carbonyl fluoride, carbon monoxide and low molecular weight fluorocarbons.

**FIRE FIGHTING INSTRUCTIONS:** Wear self-contained breathing apparatus, wear full protective equipment. Does not burn without external flame. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid. Wear neoprene gloves when handling refuse from fire involving PTFE

---

**Section 6. Accidental Release Measures**

---

**NOTE:** Sweep up to avoid slipping hazard. Use appropriate personal protective equipment during clean up.

---

**Section 7. Handling and Storage**

---

Normal ventilation is generally adequate. Avoid contact with eyes, skin or clothing. Should not be handled around tobacco or food products. Wash hands thoroughly. Keep Containers tightly closed.

---

**Section 8. Exposure Controls / Personal Protection**

---

**ENGINEERING CONTROLS:** Normal ventilation is generally adequate

**RESPIRATORY PROTECTION:** Wear appropriate NIOSH/MSHA approved respiratory protection

**SKIN PROTECTION:** Impervious gloves, apron, pants and jacket.

Product: Liquid Mold Release

**EYE PROTECTION:** Chemical splash goggles or safety glasses

---

**Section 9. Physical and chemical Properties**


---

<b>APPEARANCE :</b>	Translucent, White	<b>PHYSICAL STATE :</b>	
<b>BOILING POINT :</b>	212 F	<b>SOLUBILITY IN WATER:</b>	0 miscible
<b>EVAPORATION RATE:</b>	Not determined	<b>SPECIFIC GRAVITY :</b>	
<b>FREEZING POINT :</b>		<b>VAPOR DENSITY:</b>	>1
<b>MELTING POINT :</b>		<b>VAPOR PRESSURE:</b>	24 mm Hg at 77 F
<b>MOLECULAR WEIGHT :</b>		<b>VISCOSITY:</b>	
<b>ODOR :</b>	Faint Sweet	<b>%VOLATILE BY VOLUME:</b>	98%
<b>pH :</b>	9.0 to 10.0	<b>DENSITY:</b>	1.01

---

**Section 10. Stability and Reactivity**


---

**CHEMICAL STABILITY:** Stable at normal room temperature and storage conditions.

**INCOMPATIBILITY:** Incompatible with caustic, certain molecular sieves.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposes with heat (Greater than 330 C) forming hydrogen fluoride, hydrogen chloride, carbonyl fluoride

**HAZARDOUS POLYMERIZATION:** Will not occur.

---

**Section 11. Toxicological Information**


---

**EYE:** Alkyl Polyglycol ether on short exposure is a slight eye irritant, on prolonged exposure (24 hrs.) it is a moderate irritant.

**SKIN:** Alkyl Polyglycol ether on short exposure is a slight skin irritant, on prolonged exposure (24 hrs.) it is a moderate irritant.

**INGESTION:** Oral toxicity is low, ingestion is to be avoided.

**INHALATION:** Inhalation of fluorine compounds released as decomposition products above 290c(554f) may cause lung irritation and pulmonary edema which require medical treatment. Inhalation of fumes or smoke from overheated or burning PTFE may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes cough of approximately 24 hours duration. Repeated episodes of polymer fume fever may cause lung damage. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

**CARCINOGENICITY:** None of the components present in this material are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

---

**Section 12. Ecological Information**


---

**ECOTOXICOLOGICAL INFORMATION:** Biodegradability > than 90% Fish toxicity: LC50-10-15mg/L

Product: Liquid Mold Release

---

**Section 13. Disposal Considerations**


---

Comply with Federal, State and Local regulations.

---

Liquid Mold Release

---

**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: MS-145

---

**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: No

---

CALIFORNIA PROPOSITION 65: No

---

**Section 16. Other Information**

All statements, technical information and recommendations contained herein are based on tests and data which this company believes to be currently reliable, however, the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under nor a recommendation to practice or infringe any patent of this company or others covering any process, composition or matter or use. Since the company shall have no control of the use of the product described herein, the company assumes no liability for loss or damage incurred from the proper or improper use of such product. The company assumes no responsibility regarding the suitability of this information for the users intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular use.