

MATERIAL SAFETY DATA SHEET

LaMOTTE COMPANY
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1. PRODUCT IDENTIFICATION

Hydroculture VM Phosphorus Reagent

Code Nr. 5138

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Λ Sulfuric Acid	7664-93-9		16	1 mg/cubic m	1 mg/cubic m
Ammonium Molybdate	12054-85-2		1.7	5 mg/cubic m as Mo	5 mg/cubic m as Mo
Ammonium Vanadate	7803-55-6		<0.1	N/E	N/E

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water to 100%		

4. PHYSICAL DATA

<i>Appearance:</i> Clear Yellow Liquid			
<i>Solubility in Water:</i> Soluble	<i>Odor:</i> None	<i>Boiling Point:</i> Unknown	<i>Melt. Point:</i> N/A
<i>Vapor Pressure:</i> Unknown	<i>Vapor Density:</i> >1 (Air=1)	<i>pH:</i> <1	

5. FIRE AND EXPLOSION DATA

<i>Flash Point (method used)</i> N/A	<i>Flammable Limit: LEL:</i> N/A	<i>UEL:</i> N/A
<i>Extinguishing Media:</i> Dry chemical or CO2, not water		
<i>HMIS Hazard: Health - 3 Flammability - 0 Reactivity - 2</i> <i>Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least</i>		
<i>Special Fire Fighting Procedures:</i> Wear protective equipment and self-contained breathing apparatus.		
<i>Unusual Fire & Explosion Hazard:</i> Violent exothermic reaction occurs with water. Can react with metals to produce hydrogen gas, which can form an explosive mixture with air.		

6. REACTIVITY DATA

<i>Stability:</i>	<i>Conditions to avoid:</i> Heat, moisture
<input checked="" type="checkbox"/> <i>Stable</i>	<i>Incompatibility (Materials to avoid):</i> Strong bases, water, metals, organic materials, combustible materials
<input type="checkbox"/> <i>Unstable</i>	<i>Hazardous Decomposition Products:</i> SOx, hydrogen gas

7. HEALTH HAZARD DATA

<i>Toxicity:</i> orl rat LD50: 2140 mg/kg for sulfuric acid, concentrated	
<i>Primary Route of Entry:</i>	<input type="checkbox"/> <i>Inhalation</i> <input checked="" type="checkbox"/> <i>Skin</i> <i>Carcinogenicity:</i> <input checked="" type="checkbox"/> <i>None</i> <input type="checkbox"/> <i>NTP</i> <input checked="" type="checkbox"/> <i>Ingestion</i> <input type="checkbox"/> <i>N/A</i> <input type="checkbox"/> <i>OSHA</i> <input type="checkbox"/> <i>IARC</i>
<i>Other Health Related Comments:</i>	
<i>Target Organs:</i> Corrosive to all body parts, Skin,	
<i>Signs and symptoms of exposure:</i> Severe burns, may be fatal if swallowed	
<i>Medical Condition Aggravated by Exposure:</i> N/A	

8. EMERGENCY FIRST AID PROCEDURES

<i>Eye Contact:</i> Immediately flush with water for 15 minutes. Consult a physician immediately.
<i>Ingestion:</i> Do not induce vomiting. Rinse out mouth, drink glass of water, and call a physician immediately.
<i>Inhalation:</i> Remove to fresh air. If breathing is difficult, give oxygen.
<i>Skin Contact:</i> Immediately flush with water for 15 minutes while removing affected clothing. Consult physician.

9. SPILL AND DISPOSAL PROCEDURES

<i>Spill and Leak:</i> Wear gloves & eye protection. Cover spill with sodium bicarbonate or sodium carbonate/calcium hydroxide mixture. Mix and add water to form slurry, avoiding spattering and fumes. Scoop up and flush to drain with excess water.
<i>Disposal:</i> Add slowly to a large volume of soda ash/calcium hydroxide. Flush neutralized solution down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

<i>In Handling:</i> <input checked="" type="checkbox"/> <i>Gloves</i> <input checked="" type="checkbox"/> <i>Eye Protection</i> <input type="checkbox"/> <i>N/A</i> <input checked="" type="checkbox"/> <i>Other:</i> Lab Coat
<i>Ventilation</i> <input checked="" type="checkbox"/> <i>Normal</i> <input type="checkbox"/> <i>Mechanical</i> <input type="checkbox"/> <i>Respiratory Protection</i>
<i>Work/Hygienic Practices:</i> Avoid contact with skin, eyes or clothing.

11. SPECIAL PRECAUTIONS

Store away from incompatible items.

DATE: 1/29/01 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

Λ This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.