



MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: 4485

Product Description: Hardness Reagent #6

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	64-17-5 Ethanol	80	1000ppm TWA (1900 mg/m ³)	1000 ppm TWA
Yes	67-56-1 Methanol	4	200ppm TWA (260 mg/m ³)	200 ppm TWA
Yes	3147-14-6 Calmagite	0.1	None Established	None Established
No	7732-18-5 Water	to 100%	None Established	None Established

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion Inhalation

Poison! Danger! Flammable liquid & vapor! Harmful if swallowed, inhaled, or absorbed through skin. Ingestion may be fatal or cause blindness. Inhalation can cause headache, nausea. Affects central nervous system. May cause irritation to eyes and skin.

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 2 Flammability: 3 Reactivity: 2

Carcinogenicity: None:

Other Health Related Comments:

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4. First Aid Measures

Eye Contact: Flush with water for 15 minutes while lifting upper and lower eyelids. Consult physician.

Skin Contact: Flush skin with water for 15 minutes while removing affected clothing/shoes. Wash with soap and water. Consult physician if irritation develops.

Ingestion: Do not induce vomiting. Drink several glasses of water. Contact physician immediately.

Inhalation: Remove to fresh air.

5. Fire Fighting Measures

Flash Point (Method Used): ca.22 deg C-closedcup **LEL:** 3.3% **UEL:** 19%

Extinguishing Media: Dry chemical, CO2, or water spray

Special Fire Fighting Procedures: N/A

Unusual Fire & Explosion Hazard: Vapors may flow along floor to ignition source and flash back.

6. Accidental Release Measures

Eliminate all sources of ignition. Ventilate area. Absorb spill on paper, containerize, and hold for disposal. Dispose according to federal, state, and local regulations.

7. Handling & Storage

Store in cool, dry, ventilated area away from incompatible materials. Do not use near heat or flame.

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygenic Practices: Use with adequate ventilation and avoid contact with skin.

9. Physical & Chemical Properties

Appearance: Dark Purple Liquid

Solubility In Water: Soluble

Odor: Alcohol

pH: N/A

Vapor Density: 1.6 (Air=1)

Vapor Pressure: ca.40 mm Hg @ 20°C

Boiling Point: ca. 80°C

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat, sources of ignition

Incompatibility (Materials To Avoid): Strong acids, strong oxidizers

Hazardous Decomposition Products: COx

11. Toxicological Information

Oral Rat LD50: 7060 mg/kg for ethanol, 5628 mg/kg for methanol. Ethanol has been linked to cancer in humans. Chronic ethanol ingestion is associated with liver cancer. Most industrial ethanol contains denaturants that render it undesirable to drink.

Target Organs: Central Nervous System Skin

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12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Dispose according to federal, state and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: ETHANOL

IATA: ETHANOL

Hazard Class/Div:

DOT: 3

IATA: 3

UN: 1170

Packing Group: II

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	64-17-5 Ethanol	Yes	Yes	Yes	No	Yes	Yes
Yes	67-56-1 Methyl Alcohol	Yes	Yes	Yes	No	Yes	Yes
Yes	3147-14-6 Calmagite	Yes	Yes	Yes	No	Yes	No
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
64-17-5 Ethanol	No	No	No	No	No	No	No
67-56-1 Methyl Alcohol	No	No	Yes	Toxic Pollutant	5000	U154	No
3147-14-6 Calmagite	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

----- Australia -----

Hazard Categories

**Hazchem
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient

Acute

Chronic

Fire

Pressure

Reactivity

64-17-5
Ethanol

Yes

Yes

Yes No

No

None Allocated

None Allocated

67-56-1
Methyl Alcohol

Yes

Yes

Yes No

No

2PE

S6

3147-14-6
Calmagite

No

No

No No

No

None Allocated

None Allocated

7732-18-5
Distilled Water

No

No

No No

No

None Allocated

None Allocated

**product 4485
as a whole**

Yes

Yes

Yes No

No

2[S]E

S5

Yes

16. Other Information

NFPA rating for Ethyl Alcohol SDA 3A 200 proof: 1-3-0

Prepared By: Regulatory Affairs Department

Revised: 10/5/2009
