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#03054

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MSDS

MATERIAL SAFETY DATA SHEET

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

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)

S95000

1. Product Identification

Product Code: 2221

Product Description: Duplex Indicator

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	64-17-5 Ethyl Alcohol	29	1000ppm TWA (1900 mg/m ³)	1000 ppm TWA
Yes	67-56-1 Methyl Alcohol	2	200ppm TWA (260 mg/m ³)	200 ppm TWA
Yes	76-59-5 Bromthymol Blue	<0.1	None Established	None Established
Yes	493-52-7 Methyl Red	<0.1	None Established	None Established
No	7732-18-5 Water	to 100%	None Established	None Established

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Product Code: 2221

Product Description: Duplex Indicator

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion Inhalation

Vapors and liquid harmful. Inhalation can cause headache, dizziness, nausea. May be irritating to eyes and skin. Harmful if swallowed: Ingestion may be fatal or cause blindness.

HMIS Hazard

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

Health: 1 Flammability: 2 Reactivity: 0

Carcinogenicity: None:

Other Health Related Comments:

See section 11, Toxicity

4. First Aid Measures

Eye Contact: Flush thoroughly with water for 15 minutes, occasionally lifting upper and lower eyelids. Contact physician, if irritation persists.

Skin Contact: Flush with water for 15 minutes while removing affected clothing. Contact physician if irritation persists. Wash clothing prior to reuse.

Ingestion: Induce vomiting as directed by medical personnel. Contact physician immediately.

Inhalation: Remove to fresh air.

5. Fire Fighting Measures

Flash Point (Method Used): 22 deg C-closed cup **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 travel distance to ignition source and flash back.

6. Accidental Release Measures

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

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7. Handling & Storage

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

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Eye Protection Gloves Lab Coat

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

9. Physical & Chemical Properties

Appearance: Dark Green Liquid
Solubility In Water: Soluble
Odor: Alcohol
pH: N/A

Vapor Density: 1.6 (Air=1) for ethanol
Vapor Pressure: 40@19C for Ethanol
Boiling Point: 78C for Ethanol
Melting Point: -114C for Ethanol

10. Stability & Reactivity

Stable: Yes
Conditions To Avoid: Heat, sources of ignition
Incompatibility (Materials To Avoid): Contact with nitric acid or other strong oxidizers
Hazardous Decomposition Products: COx may form when heated to decomposition.

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Product Description: Duplex Indicator

11. Toxicological Information

Oral Rat LD 50: 7060 mg/kg Ethanol; 5628 mg/kg Methanol.

Target Organs: Skin

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

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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	76-59-5 Bromthymol Blue	Yes	Yes	Yes	No	Yes	No
Yes	493-52-7 Methyl Red	Yes	Yes	Yes	No	Yes	Yes
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
76-59-5 Bromthymol Blue	No	No	No	No	No	No	No
493-52-7 Methyl Red	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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Ingredient	--- SARA 311/312 --- Hazard Categories					----- Australia -----		This MSDS Is WHMIS Compliant
	Acute	Chronic	Fire	Pressure	Reactivity	Hazchem Code	Poison Schedule	
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	
76-59-5 Bromthymol Blue	Yes	No	No	No	No	None Allocated	None Allocated	
493-52-7 Methyl Red	No	No	No	No	No	None Allocated	None Allocated	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
product 2221 as a whole	Yes	Yes	Yes	No	No	2[S]E	S5	Yes

16. Other Information

Keep out of reach of children.

Prepared By: Regulatory Affairs Department

Revised: 7/26/2009