



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: 7028

Product Description: ALK 1 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 | 54 | 1900 mg/cubic m | 1000 ppm |
| Yes | 67-56-1 Methyl Alcohol | 3 | 260 mg/cubic m | 200 ppm |
| Yes | 76-60-8 Bromcresol Green | 0.1 | N/E | N/E |
| Yes | 493-52-7 Methyl Red | <0.1 | N/E | N/E |
| No | 7732-18-5 Water | to 100% | | |

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:

4. First Aid Measures

Eye Contact: Flush thoroughly with water. Contact a physician.

Skin Contact: Flush skin thoroughly. Wash with soap and water.

Ingestion: Drink water. Call a physician immediately.

Inhalation: Remove to fresh air.

5. Fire Fighting Measures

Flash Point (Method Used): 13 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 all sources of ignition. Ventilate area. Absorb on paper or spill pads. Allow to evaporate on iron pan (or other non-combustible container) in fume hood.

7. Handling & Storage

Store in cool, dry, storage area 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. Wash after handling.

9. Physical & Chemical Properties

| | | | |
|-----------------------------|------------------------|------------------------|-------------------------|
| Appearance: | Dark Blue-green Liquid | Vapor Density: | 1.6 (Air=1) |
| Solubility In Water: | Soluble | Vapor Pressure: | ca. 40 mm Hg @ 20 deg C |
| Odor: | Alcohol | Boiling Point: | ca. 28 deg C |
| pH: | N/A | Melting Point: | N/A |

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 |

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11. Toxicological Information

Oral human LDLo: 143 mg/kg, methanol; 1400 mg/kg, ethanol

Target Organs: Central Nervous System Skin

12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Small quantity: Flush down drain with excess water. Large quantity: Atomize into an incinerator. 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 | 76-60-8 Bromcresol Green | 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 | No | 5000 | U154 | No |
| 76-60-8 Bromcresol Green | 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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--- SARA 311/312 ---

----- Australia -----

Hazard Categories

| Ingredient | Acute | Chronic | Fire | Pressure | Reactivity | Hazchem Code | Poison Schedule | This MSDS Is WHMIS Compliant |
|--|--------------|----------------|-------------|-----------------|-------------------|---------------------|------------------------|-------------------------------------|
| 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 | |
| 76-60-8 Bromcresol Green | 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 7028 as a whole | Yes | Yes | Yes | No | No | 2[S]E | S5 | Yes |

16. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 6/2/2006
