

# Material Safety Data Sheet

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**bioMérieux, Inc.**  
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Hazelwood, MO 63042  
For Information call: 1-800-638-4835

**EMERGENCY CONTACT**  
1-314-854-0344  
Or Contact Your Local  
Poison Control Center

**Product Number:** 70422 (VP2)

**Product Name:** VP2

**Synonyms:** Alpha-Naphthol/Ethanol Solution; 1-Naphthalenol; a-Hydroxynaphthalene

## Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Percentage	Exposure Limits
90-15-3	Alpha-Naphthol	7%	None Established
64-17-5	Ethyl Alcohol	93%	1000 ppm PEL-TWA 1000 ppm TLV-TWA

PEL=OSHA Permissible Exposure Limit. TLV= ACGIH Threshold Limit Value. TWA=time weighted average.

## Section 3: HAZARDS IDENTIFICATION

### U.S. PRECAUTIONARY LABELING

#### WARNING!

Flammable liquid. May cause irritation to the eyes and skin. May be absorbed through the skin. Avoid contact with the eyes and skin. Use with adequate ventilation. Keep away from heat, sparks, flames and all other sources of ignition. No smoking in use and storage areas.

### INTERNATIONAL LABELING

Highly Flammable. May cause irritation, avoid contact with the eyes and skin. Keep away from sources of ignition. No smoking. Keep container tightly closed.

**EU Classification:** Highly Flammable

**R and S Phrases:** R11, S16, S7

### HEALTH HAZARDS:

**Inhalation:** Inhalation of vapors may cause headache, dizziness and drowsiness. Mists may cause irritation to the mucous membranes and respiratory tract with systemic toxicity similar to ingestion.

**Skin Contact:** Contact may cause irritation. Alpha-naphthol may be absorbed through the skin causing effects similar to ingestion.

**Eye Contact:** Contact may cause irritation.

**Ingestion:** Ingestion may cause headache, dizziness, drunkenness and unconsciousness. Large doses of alpha-naphthol may cause headache, vomiting, diarrhea, nephritis, circulatory collapse, anemia, liver and kidney damage, eye effects, convulsions and death.

**Chronic Health Hazards:** Chronic overexposure to ethyl alcohol may cause liver damage and adverse reproductive effects.

**Carcinogen Status:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing kidney disease may be at increased risk from exposure to this product.

## Section 4: FIRST AID MEASURES

- Inhalation:** Immediately remove the victim to fresh air. Get medical attention if symptoms persist.
- Skin Contact:** Remove contaminated clothing. Wash thoroughly with soap and water. Get medical attention if irritation or symptoms develop.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open to assure that the entire surface is flushed. Get immediate medical attention.
- Ingestion:** Immediately call a poison control center and follow their instructions. Never give anything by mouth to an unconscious or convulsing person. If conscious, rinse mouth with water and give milk or water to dilute. Get immediate medical attention.

#### Section 5: FIRE FIGHTING MEASURES

- Flash Point (Method Used):** 13C/55 F
- Autoignition Temp:** 363 C/682 F
- Flammable Limits:**           **LEL:** 3.3%                           **UEL:** 19%
- Extinguishing Media:** Use dry chemical, CO<sub>2</sub>, water spray or alcohol resistant foam. Cool fire exposed containers with water until well after the fire is out.
- Special Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.
- Unusual Fire and Explosion Hazards:** Ethyl alcohol is very flammable and will form explosive mixtures with air.
- Hazardous Combustion Products:** Carbon dioxide, carbon monoxide.

#### Section 6: ACCIDENTAL RELEASE MEASURES

Wear protective equipment as described in Section 8, including gloves and suitable eye protection. Remove all sources of ignition and ventilate the area. Wipe up spill with a paper towel or other absorbent material and place in a container for disposal. Wash spill area with water.

#### Section 7: HANDLING AND STORAGE

Follow the directions on the package insert. Follow prudent laboratory practices of avoiding contact (breathing, touching, smoking ...) with a laboratory reagent. Avoid breathing vapors. Use with adequate ventilation.

Follow storage instructions on the product label. Keep away from heat, sparks, flames and all sources of ignition.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ventilation:** General room ventilation will normally be sufficient. Where needed to maintain exposures below the exposure limits, use explosion-proof local exhaust ventilation.
- Respiratory Protection:** None should normally be needed. If the concentration exceeds the exposure limit, a supplied air respirator is required.
- Gloves:** Impervious gloves such as butyl rubber recommended.
- Eye Protection:** Chemical safety goggles.
- Other Protective Equipment/Clothing:** Impervious clothing as needed to prevent skin contact.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Clear, pink-beige solution with alcohol odor. The odor threshold for ethyl alcohol is reported to be 10 ppm.  
**pH:** N/D  
**Vapor Pressure:** 40 mm Hg @ 19 C  
**Vapor Density:** 1.59  
**Evaporation Rate:** N/D  
**Water Solubility:** Complete

**Boiling Point (F):** 173F/78C  
**Melting Point (F):** -173F/-113C  
**Percent Volatile:** 93%  
**Specific Gravity:** 0.8  
**Coefficient of Oil/Water:** N/D

### Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Avoid light, heat, sparks, flames and all other sources of ignition.  
**Incompatibility:** Strong oxidizers.  
**Hazardous Decomposition Products:** Thermal decomposition will yield oxides of carbon.  
**Hazardous Polymerization:** Will not occur.

### Section 11: TOXICOLOGICAL INFORMATION

Alpha-naphthol: Oral rat LD50: 1870 mg/kg; Oral mouse LD50: 275 mg/kg; Dermal rabbit LD50: 880 mg/kg. Mutation Data.  
Ethyl Alcohol: Oral rat LD50: 7060 mg/kg; Inhalation rat LC50: 20,000 ppm/10 hr. Mutation Data. Reproductive Effects Data.

### Section 12: ECOLOGICAL INFORMATION

The ecological effects of this mixture have not been determined.  
Alpha-naphthol: LC50 flathead minnows 7.01 mg/L/24 hr, 4.33 mg/L/48 hr. wt. 114 mg.

### Section 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of product in accordance with all local, state/provincial and federal regulations.  
**Container Disposal:** Empty containers should be collected for proper disposal.

### Section 14: TRANSPORT INFORMATION

#### U.S. DOT HAZARD CLASSIFICATION

**Proper Shipping Name:** Ethanol Solution  
**Technical Name:**  
**UN Number:** UN1170  
**Hazard Class/Packing Group:** II  
**Labels Required:** Flammable Liquid  
**DOT Packaging Requirements:** 173.202  
**Exceptions:** 173.150

#### IATA/ICAO AIR TRANSPORTATION

**Proper Shipping Name:** Ethanol Solution  
**Technical Name:**

**UN Number:** UN1170

**Hazard Class/Packing Group:** II

**Labels Required:** Flammable Liquid

**IATA Packaging Requirements:** IATA 305, Y305

**Comment:** Up to 20 kits (40-5 mL bottles of VP1 and 40-5 mL bottles of VP2) in a package can be shipped under IATA as "Dangerous Goods in Excepted Quantities". Kits in packages that do not exceed a gross mass of 64 lbs can be shipped under DOT (173.4) as excepted small quantities (inner receptacle max 30 mL).

### Section 15: REGULATORY INFORMATION

**SARA 311/312:** Hazard Categories for SARA 311/312 Reporting: Acute health, chronic health, fire hazard

**SARA 313:** This Product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Section 313 (40 CFR372):

None

**CERCLA Section 103 Reportable Quantity:** N/A

**California Proposition 65:**

This product contains the following substances known to the State of California to cause cancer and/or reproductive harm:  
None known.

**Canadian WHMIS Classification:** Class B-2 (Flammable Liquid); Class D - Division 2 - Subdivision B (Toxic material causing other chronic effects)

### Section 16: OTHER INFORMATION

**NFPA Hazard Rating:** Health: 2 Fire: 3 Reactivity: 0

**Revision Summary:** Section 1: Removed obsolete Product Number.

CREATION DATE: 3/22/2000

REVISION DATE: 4/6/2006

The above information is believed to be correct as of the date of this sheet but does not purport to be all inclusive and shall be used only as a guide. Since the use of this information and the conditions of use of the product are not within the control of bioMérieux S.A. nor bioMérieux, Inc., it is the users obligation to assure safe use of this product.