

# Material Safety Data Sheet



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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

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Vi-Jon Incorporated  
8515 Page Avenue  
Saint Louis, MO 63114

Phone: 314-427-1000  
In Case of Spill Emergency Contact:  
Chemtrec: 1-800-424-9300

**Product Name:** Vaporizing Steam Liquid Medicated  
**Product Code:** 397  
**Issue Date:** 04/14/2008  
**Supersedes Date:** None

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## Section 2: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** Keep out of reach of children.  
Appearance/Odor: Clear liquid.

**WARNING:**

Flammable (ethyl alcohol)  
Target (ethyl alcohol) respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

**Potential Health Effects:** See Section 11 for more information.

**Symptoms of Exposure:**

Inhalation: May cause irritation of the respiratory tract.  
Ingestion: May cause nausea, vomiting and diarrhea.  
Eyes: May cause irritation to the eyes.  
Skin: May cause irritation to the skin.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This product contains a component that is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200):

**Potential Environmental Effects:** See Section 12 for more information.

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## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS#	% by Wt.
Ethyl Alcohol	64-17-5	84%

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#### Section 4: FIRST AID MEASURES

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##### Emergency first aid procedures by route of exposure:

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** For skin contact, flush with water. If irritation persists, get medical attention.
- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

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#### Section 5: FIRE FIGHTING MEASURES

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**Flash Point:** 20°C (68°C)

**Method Used:** Not Available

**Auto Ignition:** (Ethyl Alcohol) 363°C

**Flammability Classification:** Flammable Liquid IB

**Extinguishing Media:** Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

**Products of Combustion:** Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

**Fire Fighting Equipment/Instructions:** Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

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

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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#### Section 6: ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Environmental Precautions:** Prevent discharge to open waters.

**Method for Containment:** Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

**Methods for Clean-Up:** Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

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#### Section 7: HANDLING AND STORAGE

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**Handling:** Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.

**Storage:** Keep the container tightly closed and in a cool, well ventilated place.

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## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Exposure Guidelines

Ethyl Alcohol (64-17-5)

ACGIH: 1,000 ppm TWA

OSHA: 1,000 ppm TWA; 1,900 mg/m<sup>3</sup> TWA

**Engineering Controls:** Normal room ventilation is usually adequate under normal use.

### Personal Protective Equipment (PPE)

**Eye/Face Protection:** None needed under normal use.

**Skin Protection:** None needed under normal use.

**Respiratory Protection:** None needed under normal use.

**General Hygiene Considerations:** Wash hands after use.

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance/Color:** Clear

**Odor:** Not Available

**Physical State:** Liquid

**pH:** Not Available

**Vapor Density:** (Ethyl Alcohol) 1.6

**Boiling Point:** (Ethyl Alcohol) 78.5°C

**Vapor Pressure:** (Ethyl Alcohol) 57.3 hPa at 20°C

**Melting Point:** (Ethyl Alcohol) -114.1°C

**Freezing Point:** Not Available

**Flash Point** (see section 5)

**Flammability Properties** (see section 5)

**Solubility** (in water): Soluble

**Density @ 20°C:** (Ethyl Alcohol) 0.789 g/cm<sup>3</sup>

**Evaporation Rate:** Not Available

**Octanol/Water partition coefficient (K<sub>ow</sub>):** (Ethyl Alcohol): - 0.32

**Auto-ignition temperature:** (Ethyl Alcohol) 363°C

**Decomposition temperature:** Not Available

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## Section 10: STABILITY AND REACTIVITY

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**Stability:** Stable under normal ambient temperatures 70°C (21°C)

**Condition to Avoid:** Avoid excessive heat or sources of ignition.

**Incompatible Materials:** This product reacts with strong acid, strong bases, and oxidizing agents.

**Hazardous Decomposition:** upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

**Hazardous Reactions:** Hazardous polymerization will not occur.

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**Section 11: TOXICOLOGY INFORMATION**

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**ACUTE EFFECTS:****A: General Product information**

Product contains ethyl alcohol. Not expected to cause irritation when used in accordance to label.

**B: Component Analysis LD50**

Ethyl Alcohol (64-17-5)  
Oral LD50 Rat: 7060 mg/kg

**CHRONIC EFFECTS:****Component**

Ethyl Alcohol (64-17-5)

**Carcinogenicity:** ACGIH A4 – Not Classifiable as a Human Carcinogen

**Neurotoxicity:** This product contains ethyl alcohol, a central nervous system target.

**Mutagenicity:** No information available for product.

**Reproductive:** No information available for product.

**Developmental:** Ethyl alcohol is a developmental toxin when consumed during pregnancy.

**Target Organs:** When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

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**Section 12: ECOLOGICAL INFORMATION**

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**Ecotoxicity:** Ethyl Alcohol (64-17-5)

96 hour LC50 *Oncorhynchus mykiss*: 12,900 mg/L (flow-through) (30days old)

96 hour LC50 *Pimephales promelas*: 14.2 mg/L

5 min EC50 *Photobacterium phosphoreum*: 35,470 mg/L

30 min EC50 *Photobacterium phosphoreum*: 34,634 mg/L

48 hour EC50 *Daphnia magna*: 9,268 mg/L

24 hour EC50 *Daphnia magna*: 10,800 mg/L

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**Section 13: DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with federal, state, and local regulations.

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**Section 14: TRANSPORTATION INFORMATION**

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Shipping Name: Consumer Commodity ORM-D

Proper Shipping Name for Non-Consumer Commodity: Ethyl Alcohol Solutions, n.o.s., 3, UN1170, PGII.

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**Section 15: REGULATORY INFORMATION**

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Ethyl alcohol, a component of this product, is on the TSCA inventory.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material contains ethyl alcohol, listed on Proposition 65 as developmental toxicity when in alcoholic beverages.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Ethyl alcohol	64-17-5	YES	Yes	Yes	Yes	Yes

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**Section 16: Other Information**

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Prepared by: Vi-Jon Inc.

**Disclaimer:**

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