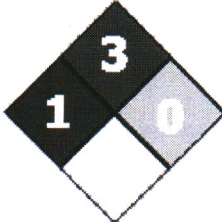




# Material Safety Data Sheet

| NFPA  | HMIS  | PPE           | Transport Symbol |             |   |            |   |   |   |
|---|---|---------------|------------------|-------------|---|------------|---|---|---|
|  | <table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>3</td></tr><tr><td>Reactivity</td><td>0</td></tr></table> | Health Hazard | 1                | Fire Hazard | 3 | Reactivity | 0 |  |  |
| Health Hazard   | 1   |               |                  |             |   |            |   |   |   |
| Fire Hazard   | 3   |               |                  |             |   |            |   |   |   |
| Reactivity  | 0   |               |                  |             |   |            |   |   |   |

Issuing Date 20-Feb-2007

Revision Date 21-Feb-2007

Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name 67.6oz Hand Sanitizer SAMS w/o IPA

06/29/2011

Recommended Use Personal care

### Supplier Address

Vi-Jon Laboratories Inc.  
8515 Page Avenue, Saint Louis, MO,  
63114  
US  
Phone:3144271000  
Fax:3144271010  
Contact:Paula Korman  
Contact Phone:3145921474  
Emergency Phone: 314 612-5701

Company Emergency Phone Number 314 612-5701

## 2. HAZARDS IDENTIFICATION

### WARNING!

#### Emergency Overview FLAMMABLE LIQUID AND VAPOR

May be harmful if swallowed.  
May cause skin, eye, and respiratory tract irritation.  
May cause drowsiness and dizziness.

Appearance Colorless

Physical State Liquid Paste/Gel

Odor Citrus

### Potential Health Effects

Principle Routes of Exposure Inhalation, Skin contact, Eye contact.

|  |  |
|--|--|
| <b>Acute Toxicity</b>                    |  |
| <b>Eyes</b>                              | Irritating to eyes.  |
| <b>Skin</b>                              | May cause irritation.  |
| <b>Inhalation</b>                        | Inhalation of vapors in high concentration may cause irritation of respiratory system.                       |
| <b>Ingestion</b>                         | May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| <b>Chronic Effects</b>                   | No known effect based on information supplied  |
| <b>Aggravated Medical Conditions</b>     | Central nervous system. Preexisting eye disorders. Liver disorders. Skin disorders.                          |
| <b>Interactions with Other Chemicals</b> | Use of alcoholic beverages may enhance toxic effects.  |
| <b>Environmental Hazard</b>              | See Section 12 for additional Ecological information   |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                                   | CAS-No     | Weight % |
|---|------------|----------|
| Ethyl alcohol                                   | 64-17-5    | 60 - 100 |
| Water   | 7732-18-5  | 30 - 60  |
| carbomer  | 76050-42-5 | 0.1 - 1  |
| Non-Hazardous Fragrance                         | Fragrance  | 0.1 - 1  |
| Diisopropylamine                                | 108-18-9   | < 0.1    |
| Glycerine                                       | 30918-77-5 | < 0.1    |
| Propylene Glycol                                | 57-55-6    | < 0.1    |
| Vitamin E acetate                               | 58-95-7    | < 0.1    |
| 2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid | 4065-45-6  | < 0.1    |
| Isopropyl myristate                             | 110-27-0   | < 0.1    |

### 4. FIRST AID MEASURES

|                                   |  |
|-----------------------------------|--|
| <b>Eye Contact</b>                | In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.                                |
| <b>Skin Contact</b>               | Wash skin with soap and water.   |
| <b>Inhalation</b>                 | Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.              |
| <b>Ingestion</b>                  | Drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If symptoms persist, call a physician. |
| <b>Notes to Physician</b>         | Keep victim warm and quiet.  |
| <b>Protection of First-aiders</b> | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                             |

### 5. FIRE-FIGHTING MEASURES

|                             |  |
|-----------------------------|--|
| <b>Flammable Properties</b> | HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. |
| <b>Flash Point</b>          | 22°C / 72°F  |



**Suitable Extinguishing Media**

Dry chemical, CO2 water spray or alcohol-resistant foam. Water spray, fog or alcohol-resistant foam. Use water spray or fog; do not use straight streams.

**Uniform Fire Code**

- Irritant: Liquid
- Flammable Liquid: I-B
- Other Health Hazard: Target Organ Toxin--Liquid

**Unsuitable Extinguishing Media**

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient..

**Hazardous Combustion Products**

Carbon oxides

**Explosion Data**

Sensitivity to mechanical impact

No

Sensitivity to static discharge

Yes

**Specific Hazards Arising from the Chemical**

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard.

**Protective Equipment and Precautions for Firefighters**

Move containers from fire area if you can do it without risk.

**NFPA**

**Health Hazard 1**

**Flammability 3**

**Stability 0**

**Physical and Chemical Hazards -**

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

**Methods for Containment**

A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Methods for Cleaning Up**

Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.

**Other Information**

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**7. HANDLING AND STORAGE****Handling**

Avoid contact with eyes. Ensure adequate ventilation. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Storage**

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

| Chemical Name    | ACGIH TLV          | OSHA PEL                  | NIOSH IDLH |
|------------------|--------------------|---------------------------|------------|
| Ethyl alcohol    | TWA: 1000 ppm      | TWA: 1000 ppm             | 3300 ppm   |
| Diisopropylamine | TWA: 5 ppm<br>Skin | TWA: 20 mg/m <sup>3</sup> | 200 ppm    |

NIOSH IDLH: Immediately Dangerous to Life or Health

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment****Eye/Face Protection**

No special protective equipment required

**Skin and Body protection**

Antistatic boots. Wear fire/flammable resistant/retardant clothing. Impervious gloves.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                   |                          |  |                   |
|-----------------------------------|--------------------------|--|-------------------|
| <b>Appearance</b>                 | Colorless                | <b>Odor</b>                                    | Citrus            |
| <b>Odor Threshold</b>             | No information available | <b>Physical State</b>                          | Liquid Paste/Gel  |
| <b>pH</b>                         | 7                        |  |                   |
| <b>Flash Point</b>                | 22°C / 72°F              | <b>Autoignition Temperature</b>                | Not applicable    |
| <b>Decomposition temperature</b>  | No data available        | <b>Boiling Point/Range</b>                     | 78°C / 173°F      |
| <b>Melting Point/Range</b>        | No data available        |  |                   |
| <b>Flammability Limits in Air</b> | No data available        | <b>Explosion Limits</b>                        | No data available |
| <b>Specific Gravity</b>           | No data available        | <b>Water Solubility</b>                        | Soluble in water  |
| <b>Solubility</b>                 | No data available        | <b>Evaporation Rate</b>                        | No data available |
| <b>Vapor Pressure</b>             | No data available        | <b>Vapor Density</b>                           | No data available |
| <b>VOC Content</b>                | 62.05%                   | <b>Partition Coefficient (n-octanol/water)</b> |                   |

## 10. STABILITY AND REACTIVITY

**Stability**

Stable under recommended storage conditions

**Conditions to Avoid**

Heating in air. Keep away from open flames, hot surfaces and sources of ignition.



**Incompatible Products**

None known based on information supplied

**Hazardous Decomposition Products**

None known based on information supplied

**Hazardous Polymerization**

Hazardous polymerization does not occur

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity****Product Information**

| Chemical Name                                   | LD50 Oral           | LD50 Dermal            | LC50 Inhalation        |
|---|---------------------|------------------------|------------------------|
| Ethyl alcohol                                   | 1501 mg/kg ( Rat )  |                        | 124.7 mg/L ( Rat ) 4 h |
| Diisopropylamine                                | 420 mg/kg ( Rat )   | 10000 mg/kg ( Rabbit ) | 5.3 mg/L ( Rat ) 4 h   |
| Propylene Glycol                                | 20000 mg/kg ( Rat ) | 20800 mg/kg ( Rabbit ) |                        |
| 2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid | 3530 mg/kg ( Rat )  |                        |                        |
| Isopropyl myristate                             | 10000 mg/kg ( Rat ) | 5000 mg/kg ( Rabbit )  |                        |

**Subchronic Toxicity (28 days)****Chronic Toxicity****Carcinogenicity**

There are no known carcinogenic chemicals in this product

**Mutagenicity****Reproductive Toxicity**

This product does not contain any known or suspected reproductive hazards

**Target Organ Effects**

Blood, Central nervous system (CNS), Eyes, Liver, Reproductive System, Respiratory system, Skin.

**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Ecotoxicity effects.

| Chemical Name       | Toxicity to Algae      | Toxicity to Fish | Microtox  | Daphnia Magna (Water Flea)                      |
|---------------------|------------------------|------------------|---|---|
| Ethyl alcohol       |                        |                  | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min | EC50 = 10800 mg/L 24 h<br>EC50 = 9268 mg/L 48 h |
| Diisopropylamine    | EC50 = 20 mg/L 96 h    |                  |   | EC50 = 25.8 mg/L 24 h<br>EC50 = 53 mg/L 24 h    |
| Propylene Glycol    | EC50 = 19000 mg/L 96 h |                  | EC50 = 710 mg/L 30 min                              | EC50 > 10000 mg/L 48 h                          |
| Isopropyl myristate | EC50 > 100 mg/L 72 h   |                  |   | EC50 = 100 mg/L 48 h                            |

| Chemical Name       | Log Pow |
|---------------------|---------|
| Ethyl alcohol       | -0.32   |
| Isopropyl myristate | 6       |

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Dispose of in accordance with local regulations

**US EPA Waste Number** D001

This product contains one or more substances that are listed with the State of California as a hazardous waste

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Ethyl alcohol | Toxic; Ignitable                  |

**14. TRANSPORT INFORMATION****DOT**

**Proper Shipping Name** Consumer commodity  
**Hazard Class** ORM-D  
**Description** Consumer commodity, ORM-D

**TDG**

**Proper Shipping Name** Ethanol (Mixture)  
**Hazard Class** 3  
**UN-No** UN1170  
**Packing Group** II  
**Description** ETHANOL,3,UN1170,PG II,Mixture

**MEX**

**Proper Shipping Name** Etanol (Mixture)  
**Hazard Class** 3  
**UN-No** UN1170  
**Description** UN1170 Etanol,3,,Mixture

**ICAO**

**UN-No** UN1170  
**Proper Shipping Name** Ethyl alcohol (Mixture)  
**Hazard Class** 3  
**Packing Group** II  
**Description** Ethyl alcohol,3,UN1170,PG II,Mixture

**IATA**

**UN-No** UN1170  
**Proper Shipping Name** Ethanol (Mixture)  
**Hazard Class** 3  
**Packing Group** II  
**ERG Code** 3L  
**Description** UN1170,Ethanol,3,PG II,Mixture

**IMDG/IMO**

**Proper Shipping Name** Ethanol (Ethyl alcohol) (Mixture)  
**Hazard Class** 3

**14. TRANSPORT INFORMATION**

|               |   |
|---------------|---|
| UN-No         | UN1170  |
| Packing Group | II  |
| EmS No.       | F-E, S-D  |
| Description   | UN1170, Ethanol (Ethyl alcohol),3,PG II,Mixture |

**RID**

|                      |   |
|----------------------|---|
| Proper Shipping Name | Ethanol (Ethyl alcohol) (Mixture)               |
| Hazard Class         | 3   |
| UN-No                | UN1170  |
| Packing Group        | II  |
| Classification Code  | F1  |
| Description          | UN1170 Ethanol (Ethyl alcohol),3,II,RID,Mixture |
| ADR/RID-Labels       | 3   |

**ADR**

|                      |                                   |
|----------------------|-----------------------------------|
| Proper Shipping Name | Ethanol (Ethyl alcohol) (Mixture) |
| Hazard Class         | 3                                 |
| UN-No                | UN1170                            |
| Packing Group        | II                                |
| Classification Code  | F1                                |
| ADR/RID-Labels       | 3                                 |

**ADN**

|                      |                     |
|----------------------|---------------------|
| Proper Shipping Name | Ethanol (Mixture)   |
| Hazard Class         | 3                   |
| Packing Group        | II                  |
| Classification Code  | F1                  |
| Special Provisions   | 144                 |
| Description          | UN1170 Ethanol,3,II |
| Hazard Labels        | 3                   |
| Limited Quantity     | 1 L                 |

**15. REGULATORY INFORMATION****International Inventories**

|        |          |
|--------|----------|
| TSCA   | Complies |
| DSL    | Complies |
| NDSL   | Complies |
| EINECS | Complies |
| ELINCS | Complies |
| ENCS   | Complies |
| CHINA  | Complies |
| KECL   | Complies |
| PICCS  | Complies |
| AICS   | Complies |

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | Yes |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

| Chemical Name    | CAS-No  | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|------------------|---------|----------|-----------|---------------|-------------------------|-------------------------|
| Propylene Glycol | 57-55-6 | < 0.1    |           | Group I       |                         |                         |

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**Pesticide Information**

| Chemical Name                                   | FIFRA - Restricted Use | FIFRA - Pesticide Product Other Ingredients | FIFRA - Listing of Pesticide Chemicals | California Pesticides - Restricted Materials |
|---|------------------------|---|--|--|
| Ethyl alcohol                                   |                        | List 4B - Inert Ingredients                 | X                                      |  |
| Water   |                        | List 4A - Minimum Risk Inerts               |  |  |
| Propylene Glycol                                |                        | List 4B - Inert Ingredients                 | X                                      |  |
| Vitamin E acetate                               |                        | List 3 - Unknown Toxicity                   |  |  |
| 2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid |                        | List 3 - Unknown Toxicity                   |  |  |
| Isopropyl myristate                             |                        | List 4A - Minimum Risk Inerts               | X                                      |  |

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No  | California Prop. 65 |
|---------------|---------|---------------------|
| Ethyl alcohol | 64-17-5 | Developmental       |

**U.S. State Right-to-Know Regulations**

| Chemical Name    | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------|---------------|------------|--------------|----------|--------------|
| Ethyl alcohol    | X             | X          | X            |          | X            |
| Water            |               |            |              |          |              |
| Diisopropylamine | X             | X          | X            |          | X            |
| Propylene Glycol |               |            | X            |          | X            |



**International Regulations****Mexico - Grade**

Serious risk, Grade 3

| Chemical Name    | Carcinogen Status | Exposure Limits  |
|------------------|-------------------|--|
| Ethyl alcohol    |                   | Mexico: TWA= 1000 ppm<br>Mexico: TWA= 1900 mg/m <sup>3</sup> |
| Diisopropylamine |                   | Mexico: TWA= 20 mg/m <sup>3</sup><br>Mexico: TWA= 5 ppm      |

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

B2 Flammable liquid

**16. OTHER INFORMATION**

Issuing Date 20-Feb-2007  
Revision Date 21-Feb-2007  
Revision Note No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS