




Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"><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

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.

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

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

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point	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 -
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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 Skin	TWA: 20 mg/m ³	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

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

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 EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h
Diisopropylamine	EC50 = 20 mg/L 96 h			EC50 = 25.8 mg/L 24 h 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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	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 Mexico: TWA= 1900 mg/m ³
Diisopropylamine		Mexico: TWA= 20 mg/m ³ 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