



Material Safety Data Sheet

Issuing Date 07-May-2013

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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name 951 Original Sanitizer 65% Ethanol

Recommended Use Hand sanitizer.

Supplier Address

Vi-Jon Inc.
8515 Page Avenue, Saint Louis, MO,
63114
US
Phone:3144271000
Fax:3144271010
Contact:Paula Korman
Contact Phone:3145921474
Emergency Phone: 18004249300

Company Emergency Phone Number 18004249300

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

FLAMMABLE LIQUID AND VAPOR

May be harmful if swallowed, inhaled, or absorbed through skin

May cause skin, eye, and respiratory tract irritation

May cause central nervous system depression

May cause adverse effects on the bone marrow and blood-forming system

May cause adverse liver effects

Contains a known or suspected reproductive toxin

Appearance Clear, Colorless

Physical State Liquid, Viscous liquid.

Odor Floral, Alcohol

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure

Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes

Irritating to eyes.

Skin

May be harmful if absorbed through skin. May cause irritation.

Inhalation

May be harmful if inhaled.

Ingestion

May be harmful if swallowed. May cause central nervous system depression.

Chronic Effects

Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Aggravated Medical Conditions	Central nervous system. Pre-existing eye disorders. Blood disorders. Liver disorders. Skin disorders. Respiratory 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 %
SD Alcohol 40 (190 Proof)	64-17-5	50-100
Water, distilled, conductivity or of similar purity	7732-18-5	10-50
Acrylic acid-sucrose polyallyl ether polymer	9007-16-3	0-1
Fragrance (Irritating to the eyes and skin)	Fragrance	0-1
T-butyl alcohol	75-65-0	0-1
Diisopropylamine	108-18-9	0-1
Glycerin	56-81-5	0-1
Propylene Glycol	57-55-6	0-1
Tocopheryl acetate	58-95-7	0-1
Denatonium benzoate	3734-33-6	0-1
Benzophenone-4	4065-45-6	0-1
Isopropyl myristate	110-27-0	0-1

4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, call a physician.
Skin Contact	Wash skin with soap and water. If skin irritation persists, call a physician.
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.
Ingestion	Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Notes to Physician	Ethanol may inhibit methanol metabolism.

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	22C / 72F
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or alcohol-resistant foam. Use water spray or fog; do not use straight streams.
Uniform Fire Code	• Flammable Liquid: I-B
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.

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. Runoff to sewer may create fire or explosion hazard.

Sensitivity to Static Discharge

Yes.

Protective Equipment and Precautions for Firefighters

Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

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**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
SD Alcohol 40 (190 Proof) 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³
T-butyl alcohol 75-65-0	TWA: 100 ppm	TWA: 100 ppm TWA: 300 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 300 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 450 mg/m ³	IDLH: 1600 ppm TWA: 100 ppm TWA: 300 mg/m ³ STEL: 150 ppm STEL: 450 mg/m ³
Diisopropylamine 108-18-9	TWA: 5 ppm S*	TWA: 5 ppm TWA: 20 mg/m ³ (vacated) TWA: 5 ppm (vacated) TWA: 20 mg/m ³ (vacated) S*	IDLH: 200 ppm TWA: 5 ppm TWA: 20 mg/m ³
Glycerin 56-81-5	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures

For home use.

Personal Protective Equipment

Eye/Face Protection

None required for consumer use.

Skin and Body Protection

None required for consumer use.

Respiratory Protection

None required under normal usage. 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

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Colorless.	Odor	Floral, Alcohol.
Odor Threshold	No information available	Physical State	Liquid Viscous liquid
pH	7.0		
Flash Point	72F / 22C	Autoignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	78Å °C / 173Å °F
Melting Point/Range	No information available		
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility	Soluble in water.	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Alkalis. Ammonia. Oxidizing agents. Peroxides.
Conditions to Avoid	Heat, flames and sparks.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Product Information	May be harmful by inhalation, ingestion, or skin absorption.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
SD Alcohol 40 (190 Proof)	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Water, distilled, conductivity or of similar purity	> 90 mL/kg (Rat)	-	-
Acrylic acid-sucrose polyallyl ether polymer	= 4100 mg/kg (Rat)	-	-
T-butyl alcohol	= 2733 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9700 ppm (Rat) 4 h
Diisopropylamine	= 420 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 5.3 mg/L (Rat) 4 h
Glycerin	= 12600 mg/kg (Rat)	> 21900 mg/kg (Rat)	-
Propylene Glycol	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Denatonium benzoate	= 584 mg/kg (Rat)	-	-
Benzophenone-4	= 3530 mg/kg (Rat)	-	-
Isopropyl myristate	> 10000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	41 mg/l (Rat) 1 h

Chronic Toxicity

Chronic Toxicity	Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.
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Carcinogenicity	Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.
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Chemical Name	ACGIH	IARC	NTP	OSHA
SD Alcohol 40 (190 Proof)	A3	Group 1		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Target Organ Effects	Blood. Central nervous system (CNS). Eyes. Liver. Reproductive system. Respiratory system. Skin.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Ecotoxicity effects of component substances.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
SD Alcohol 40 (190 Proof)		LC50: 12.0 - 16.0 mL/L (96 h static) <i>Oncorhynchus mykiss</i> LC50: 13400 - 15100 mg/L (96 h flow-through) <i>Pimephales promelas</i> LC50: > 100 mg/L (96 h static) <i>Pimephales promelas</i>	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: 9268 - 14221 mg/L (48 h) <i>Daphnia magna</i> EC50: 10800 mg/L (24 h) <i>Daphnia magna</i> EC50: 2 mg/L (48 h Static) <i>Daphnia magna</i>
T-butyl alcohol	EC50: > 1000 mg/L (72 h) <i>Desmodesmus subspicatus</i>	LC50: 6130-6700 mg/L (96 h flow-through) <i>Pimephales promelas</i>	EC50 > 10000 mg/L 17 h	EC50: 4607 - 6577 mg/L (48 h Static) <i>Daphnia magna</i> EC50: 933 mg/L (48 h) <i>Daphnia magna</i>
Diisopropylamine	EC50: 20 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i> EC50: 20 mg/L (96 h static) <i>Pseudokirchneriella subcapitata</i>	LC50: 420-560 mg/L (96 h semi-static) <i>Oryzias latipes</i> LC50: 37 mg/L (96 h) <i>Oncorhynchus mykiss</i> LC50: 150-223 mg/L (96 h semi-static) <i>Brachydanio rerio</i> LC50: 1000 mg/L (96 h semi-static) <i>Poecilia reticulata</i>		EC50: 25.8 mg/L (24 h) <i>Daphnia magna</i>
Glycerin		LC50: 51 - 57 mL/L (96 h static) <i>Oncorhynchus mykiss</i>		EC50: > 500 mg/L (24 h) <i>Daphnia magna</i>
Propylene Glycol	EC50: 19000 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i>	LC50: 51600 mg/L (96 h static) <i>Oncorhynchus mykiss</i> LC50: 41 - 47 mL/L (96 h static) <i>Oncorhynchus mykiss</i> LC50: 710 mg/L (96 h) <i>Pimephales promelas</i> LC50: 51400 mg/L (96 h static) <i>Pimephales promelas</i>		EC50: > 1000 mg/L (48 h Static) <i>Daphnia magna</i> EC50: > 10000 mg/L (24 h) <i>Daphnia magna</i>
Isopropyl myristate	EC50: > 100 mg/L (72 h) <i>Desmodesmus subspicatus</i>	LC50: 8400 mg/L (96 h) <i>Brachydanio rerio</i> LC50: 8400 mg/L (96 h semi-static) <i>Brachydanio rerio</i>		EC50: 100 mg/L (48 h) <i>Daphnia magna</i>

Chemical Name	Log Pow
SD Alcohol 40 (190 Proof)	-0.32
T-butyl alcohol	0.35
Glycerin	-1.76
Propylene Glycol	-0.32
Isopropyl myristate	6.006

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods 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

California Hazardous Waste Codes 331

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

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
SD Alcohol 40 (190 Proof)			Toxic Ignitable	

14. TRANSPORT INFORMATION

Emergency Response Guide Number 127

DOT
Description Consumer commodity, ORM-D

TDG
Description UN1170, ETHANOL, 3, PG III

MEX
Description UN1170 Ethanol, 3, III

ICAO
Description UN1170, Ethyl alcohol, 3, PG III

IATA
Description UN1170, Ethyl alcohol, 3, PG III

IMDG/IMO
Description UN1170, Ethanol, 3, PG III, FP 22C

15. REGULATORY INFORMATION**International Inventories**

TSCA Complies
DSL Not determined

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
T-butyl alcohol	75-65-0	0-1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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
Glycerin	56-81-5	0-1		Group II		
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.

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

This product contains the following Proposition 65 chemicals:

Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	CAS-No	California Prop. 65
SD Alcohol 40 (190 Proof)	64-17-5	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene Glycol		X			
Glycerin	X	X	X		X
T-butyl alcohol	X	X	X		X
SD Alcohol 40 (190 Proof)	X				
Diisopropylamine	X	X	X		

International Regulations**Mexico - Grade**

Severe risk, Grade 4

Chemical Name	Carcinogen Status	Exposure Limits
Glycerin		Mexico: TWA 10 mg/m ³
T-butyl alcohol		Mexico: TWA 100 ppm Mexico: TWA 300 mg/m ³ Mexico: STEL 150 ppm Mexico: STEL 450 mg/m ³
SD Alcohol 40 (190 Proof)		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³
Diisopropylamine		Mexico: TWA 5 ppm Mexico: TWA 20 mg/m ³

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

D2B Toxic materials

**16. OTHER INFORMATION**

Issuing Date 07-May-2013
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Revision Note No information available

General Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of Safety Data Sheet