



# VI-JON<sup>®</sup> Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name:** Isopropyl Alcohol 99%  
**Item Number:** A00AA

### Other means of identification

**Synonyms:** None

### Recommended use of the chemical and restrictions on use

**Recommended Use:** First Aid  
**Uses advised against:** Use only as directed.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Vi-Jon Inc.  
8800 Page Avenue  
Saint Louis  
MO  
63114  
US  
Phone: 314-427-1000 (M-F 8am-4pm CST)  
Fax: 314-427-1010

**Emergency telephone number** Chemtrec: 1-800-424-9300 (24-Hour)

**Product Number:** A00AA  
**Issuing Date:** August 13, 2015

**Revision Date:** None

**Product Name:** Isopropyl Alcohol 99%  
**Revision Number:** 0

## 2. HAZARDS IDENTIFICATION

### Classification

This product contains a chemical or chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

### GHS Label elements, including precautionary statements

#### Emergency Overview

**Signal word:**

**Danger**

#### **Hazard statements**

May cause drowsiness or dizziness  
Causes serious eye irritation  
Highly flammable liquid and vapor



**Appearance:** Clear, Colorless, Water thin liquid

**Physical State:** Water thin liquid

**Odor:** Alcohol

#### **Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge

#### **Precautionary Statements – Response**

No information available.

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### **Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Fire**

In case of fire: Use CO2, dry chemical, or foam for extinction.

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

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**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May be harmful if swallowed

May be harmful if inhaled

Prolonged or repeated contact may dry skin and cause irritation

**Interactions with Other Chemicals**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade Secret
Isopropyl Alcohol	67-63-0	50-100	*
Water	7732-18-5	0-10	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES**

**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**

In the case of skin irritation or allergic reactions see a physician.

**Inhalation**

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**Protection of First-aiders**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects**

Eye irritation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical, CO<sub>2</sub>, water spray, fog or alcohol-resistant foam.

### Unsuitable Extinguishing Media

CAUTION: This product has a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use straight streams.

### 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.

#### Uniform Fire Code

Flammable Liquid: I-B  
Irritant: Liquid

### Hazardous Combustion Products

Carbon oxides.

### Explosion Data

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge Yes

### Protective Equipment and Precautions for Firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### 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. Ventilate area with explosion-proof equipment. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

#### Other Information

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

### Environmental precautions

#### Environmental Precautions

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

### Methods and material for containment and cleaning up

#### 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

Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Keep away from heat, sparks and open flame. No smoking.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers

#### Incompatible Products

Strong oxidizing agents. Acids. Chlorinated compounds.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

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). See section 15 for national exposure control parameters.

### Appropriate engineering controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Tightly fitting safety goggles.

#### Skin and Body Protection

Wear protective gloves/clothing. Antistatic boots

#### Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Physical State	Water thin liquid	Odor	Alcohol
Appearance	Clear, Colorless, Water thin liquid	Odor Threshold	No information available
Color	Colorless		
<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>	
pH	No data available	None known	
Melting/freezing point	No data available	None known	
Boiling Point/Range	No data available	None known	
Flash Point	12C / 54F	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	Miscible with water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water		None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity		None known	
Explosive Properties	No data available		
Oxidizing Properties	No data available		
<u>Other Information</u>			
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		
Particle Size Distribution	No data available		

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

### Hazardous Decomposition Products

Carbon oxides.

When used in accordance with the directions.

## 11. TOXICOLOGICAL INFORMATION

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

### Information on likely routes of exposure

#### Product Information

Inhalation	May cause drowsiness and dizziness.
Eye Contact	Irritating to eyes.
Skin Contact	There is no data available for this product.
Ingestion	There is no data available for this product.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl Alcohol 67-63-0	= 4396 mg/kg ( Rat )	= 12800 mg/kg ( Rabbit )	= 16000 ppm ( Rat ) 8 h

### Information on toxicological effects

Symptoms	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
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Mutagenic Effects	No information available.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X

*IARC: (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans  
OSHA: (Occupational Safety & Health Administration)  
X - Present*

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	No known effect based on information supplied.
Target Organ Effects	Eyes. Respiratory system. Skin. Central nervous system (CNS).
Aspiration Hazard	No information available.

### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

4,440.00 mg/kg

**ATEmix (dermal)**

12,929.00 mg/kg (ATE)

**ATEmix (inhalation-dust/mist)**

16,162.00ATEmix

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## 12. ECOLOGICAL INFORMATION

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

### Ecotoxicity

No information available.

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available.

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Waste Disposal Methods**

This material, as supplied, is not 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**

212

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

Chemical Name	California Hazardous Waste
Isopropyl Alcohol 67-63-0	Toxic Ignitable



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## 14. TRANSPORT INFORMATION

### DOT

Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	129

### TDG

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Description	UN1219, ISOPROPANOL, 3, II

### MEX

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Description	UN1219 ISOPROPANOL, 3, II

### ICAO

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Description	UN1219, ISOPROPANOL, 3, II

### IATA

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Description	UN1219, ISOPROPANOL, 3, II

### IMDG/IMO

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
EmS-No.	F-E, S-D
Description	UN1219, ISOPROPANOL, 3, II, FP -11C

### RID

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Classification code	F1
Description	UN1219 ISOPROPANOL, 3, II

### ADR

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Classification code	F1
Description	UN1219 ISOPROPANOL, 3, II

### ADN

UN-No.	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II
Classification code	F1
Special Provisions	601
Description	UN1219 ISOPROPANOL, 3, II
Hazard Labels	3
Limited Quantity	1 L
Ventilation	VE01

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## 15. REGULATORY INFORMATION

### International Inventories

TSCA Exempt  
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### 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 ingredients regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, does not contain any ingredients regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

### U.S. State Regulations

#### California Proposition 65 - NONE

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isopropyl Alcohol 67-63-0	X	X	X	X	

### International Regulations

Mexico - Grade No information available.

#### National occupational exposure limits

Chemical Name	Carcinogen Status	Exposure Limits
Isopropyl Alcohol		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m <sup>3</sup> Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m <sup>3</sup>

#### Canada

##### WHMIS Hazard Class

B2  
D2B



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## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 4	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> - None
<b>HMIS</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 4	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

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**Revision Note** None

### 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 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.

Approved and Updated by Vi-Jon, Inc.

### Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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**End of Safety Data Sheet**