Issuing Date: March 4, 2014 Revision Date: April 11, 2019 Revision Number: 2





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1. IDENTIFICATION

Product identifier

Product Name 883AA Isopropyl Alcohol 99%

Other means of identification

Product Code(s) N/A

Recommended use of the chemical and restrictions on use

Recommended Use First-Aid

Restrictions on useUse only as directed.

Details of the supplier of the safety data sheet

Supplier NameVi-Jon Inc.Supplier AddressVi-Jon Inc.

8800 Page Avenue

Saint Louis MO 63114 US

Supplier Phone Number Phone: 314-427-1000 (M-F 8am-4pm CST)

Fax:3144271010

Supplier Email info@vijon.com

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



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2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Appearance: Clear, Colorless, Physical state: Water-Thin Liquid Odor: Alcohol

Water-Thin Liquid

GHS Label elements, including precautionary statements

Danger

Hazard statements

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





Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Keep cool

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

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant



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Other information

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled.

Unknown acute toxicity 99 % of the mixture consists of ingredient(s) of unknown toxicity

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

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

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Isopropyl Alcohol 99% by volume	67-63-0	50 - 100	-	-
Water	7732-18-5	0 - 10	xx-xxx-xxxx	Filed: 02/17/2016
				Granted: 02/17/20161

4. FIRST AID MEASURES

First aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. 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

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact None. **Sensitivity to Static Discharge** Yes.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other Information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure LimitsThere is no exposure data pertaining to the Product. This section reflects exposure data

pertaining to individual ingredients.

Chemical name		ACGIH TLV		OSHA PEL		NIOSH IDLH		
Isopropyl Alcohol 99% by STEL: 400 pp		ppm	TWA: 400 ppm		IDLH	l: 2000 ppm	10% LEL	
volume TWA: 200 ppm		ppm	TWA: 980 mg/m ³		TWA: 980 mg/m ³			
67-63-0	67-63-0			(vacated) TWA: 400 ppm		TWA: 400 ppm		
				(vacated) TWA: 980 mg/m ³		STEL: 500 ppm		
			(vacated) STEL: 500 ppm		STEL: 1225 mg/m ³			
				(vacated) STEL: 1225 mg/m ³				
Chemical name		Alberta	British C	Columbia	Ontario TWAE	V	Quel	bec
Isopropyl Alcohol 99% by	Т	WA: 200 ppm	TWA: 2	:00 ppm	TWA: 200 ppn	n	TWA: 40	00 ppm
volume	T۱	VA: 492 mg/m ³	STEL: 4	100 ppm	STEL: 400 ppr	m	TWA: 98	5 mg/m ³
67-63-0	S	TEL: 400 ppm					STEL: 50	
	ST	EL: 984 mg/m ³					STEL: 123	30 mg/m ³

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 controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations 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. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Water-Thin Liquid

Appearance Clear, Colorless, Water-Thin Liquid

Odor Alcohol Colorless

Odor Threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

 pH
 UNKNOWN

 Melting / freezing point
 No data available
 None known

 Boiling point / boiling range
 No data available
 None known

Flash Point 10 C / 50 F

Evaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit No data available

Lower flammability limit No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 0.78

Water Solubility Miscible in water

Solubility(ies) No data available None known

Partition coefficient: n-octanol/water0

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

Explosive properties No information available **Oxidizing properties** No information available **Softening Point** No information available No information available **Molecular Weight VOC Content (%)** No information available **Liquid Density** No information available **Bulk Density** No information available **Particle Size** No information available **Particle Size Distribution** No information 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

None known.

Hazardous Decomposition Products

Carbon oxides.

When used in accordance with the directions.



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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 Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity

Acute Toxicity

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

ATEmix (oral) 1,889.00 mg/kg
ATEmix (dermal) 4,100.00 mg/kg
ATEmix (inhalation-dust/mist) 73.30 mg/L

Unknown acute toxicity 99 % of the mixture consists of ingredient(s) of unknown toxicity

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

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

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50 Dermal LD50		Inhalation LC50		
Isopropyl Alcohol 99% by	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h		
volume					
Water	> 90 mL/kg (Rat)	-	-		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 99% by	-	Group 3 - Not Classifiable	-	X - Present
volume		as to Carcinogenicity in		
67-63-0		Humans		

Reproductive toxicityNo information available.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure No information available.

Aspiration hazard No information available.



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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.

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

Persistence and Degradability

Bioaccumulation

Mobility

No information available.

No information available.

No information available.

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local

products regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld

containers.

US EPA Waste Number D001
California Waste Codes 331

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

14. TRANSPORT INFORMATION

DOT

<u>U</u>N.No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group ||

Description UN1219, ISOPROPANOL SOLUTION, 3, II

Emergency Response Guide 129

Number

<u>TDG</u>

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group ||

Description UN1219, ISOPROPANOL SOLUTION, 3, II

<u>MEX</u>

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group ||

Description UN1219, ISOPROPANOL SOLUTION, 3, II

ICAO

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group ||

Description UN1219, ISOPROPANOL SOLUTION, 3, II

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IATA

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group II
ERG Code 3L

Description UN1219, ISOPROPANOL SOLUTION, 3, II

IMDG/IMO

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group II
EmS-No. F-E, S-D

Description UN1219, ISOPROPANOL SOLUTION, 3, II, (10°C C.C.)

RID

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group || Classification code || F1

Description UN1219, ISOPROPANOL SOLUTION, 3, II

ADR/RID-Labels 3

<u>ADR</u>

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group II
Classification code F1
Tunnel restriction code (D/E

Description UN1219, ISOPROPANOL SOLUTION, 3, II, (D/E)

ADN

UN-No. UN1219

Proper Shipping Name ISOPROPANOL SOLUTION

Hazard Class 3
Packing Group II
Classification code F1
Special Provisions 601

Description UN1219, ISOPROPANOL SOLUTION, 3, II

Hazard Labels3Limited Quantity1 LVentilationVE01



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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.

PICCS Contact supplier for inventory compliance status.

AICS Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US 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 %
Isopropyl Alcohol 99% by volume- 67-63-0	67-63-0	50 - 100	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (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)

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

US 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	Massachusett	Pennsylvania	Rhode Island	Illinois
		S			
Isopropyl Alcohol 99% by volume 67-63-0	X	X	Х	Х	



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16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 3 Instability 0 Physical and Chemical

Properties - N/A

HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal Protection X

Prepared By Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date March 4, 2014 **Revision Date** April 11, 2019

Revision Note Update to DOT Shipping

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

