



MATERIAL SAFETY DATA SHEET

Isopropyl Alcohol Spray	<i>MSDS No.:</i>	011
	<i>Revision No.:</i>	2
	<i>Date:</i>	12/01/04

PRODUCT AND COMPANY INFORMATION – SECTION 1

Manufacturer/Distributor:	Water-Jel Technologies
	243 Veterans Boulevard
	Carlstadt, NJ 07072
	201-507-8300
	800-275-3433
Product Name:	Isopropyl Alcohol Spray
Synonyms:	Isopropanol Spray, Alcohol Spray
Intended Use:	First aid to help decrease the risk of bacterial infection in minor cuts, and scrapes. For external use only.

**FOR CHEMICAL EMERGENCY, SPILL, LEAK,
FIRE, EXPOSURE, OR ACCIDENT:**

In the continental U.S.: 800-275-3433
For additional information: 201-507-8300

COMPOSITION INFORMATION – SECTION 2

In accordance with 29 CFR §1910.1200 (i)(1) the specific chemical identity of this product is being withheld as a trade secret.

Chemical Name:	Isopropyl Alcohol
Percent:	Proprietary
CAS Number:	67-63-0
Exposure Limits	OSHA PEL: 400 ppm TWA (960 mg/m ³ TWA)
	ACGIH TLV: 400 ppm TWA (960 mg/m ³ TWA)

HAZARDS IDENTIFICATION – SECTION 3

EMERGENCY OVERVIEW & HAZARDS PRESENT TO MAN AND THE ENVIRONMENT	Components of Isopropyl Alcohol are severe eye irritants, resulting in corneal injury if not removed immediately. Prolonged inhalation may cause headache, eye, nose and throat irritation, with possible central nervous system effects: depressant. Ingestion may cause birth defects (teratogen).
PRIMARY ROUTES OF EXPOSURE	Inhalation, Ingestion, Eyes
<u>POTENTIAL HEALTH EFFECTS:</u>	
Eyes:	Vapor irritates eyes.
Skin:	No information available.

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Inhalation:	High concentrations of vapor can irritate respiratory tract, are anesthetic and may cause CNS depression.
Ingestion:	Can cause depression of CNS, nausea, vomiting and/or diarrhea.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	Pre-existing eye and respiratory disorders may be aggravated by exposure.
<u>CHRONIC HEALTH EFFECTS:</u>	
Eyes:	Prolonged contact may result in corneal injury.
Skin:	No information available.
Inhalation:	Prolonged inhalation may cause headache, eye, nose and throat irritation, with possible central nervous system effects.
Ingestion:	Can cause depression of CNS, nausea, vomiting and/or diarrhea.

FIRST AID MEASURES – SECTION 4

SEEK MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE.

FIRST AID MEASURES:

Eyes:	Flush immediately with clean water for at least fifteen (15) minutes.
Skin: (Other than hands)	Intended for hand use without causing irritation but if contacts other skin areas that may become irritated rinse with clean water.
Inhalation:	Move patient to fresh air. Seek immediate medical attention if individual is severely overcome by overexposure to vapors. Overexposure is most likely to occur when dealing with large quantities in an enclosed space with inadequate ventilation.
Ingestion:	If ingested, call a physician immediately.
Instructions for Physician:	No information available.

FIRE FIGHTING MEASURES – SECTION 5

NFPA Classification

Health	Fire	Reactivity	Other
2	3	0	N/A

FLAMMABILITY PROPERTIES

Flash Point:	21 °C (69 °F)	Method:	PMCC
Flammability Limits: (in air % by volume)	LEL:	2%	UEL: 12%

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<u>Autoignition Temperature:</u>
399 °C (572 °F)
<u>Hazardous Combustion Products:</u>
CO, CO2, NOx
<u>Extinguishing Media:</u>
Dry chemical, water spray or alcohol resistant foam.
<u>Prohibited Extinguishing Media:</u>
No information available.
<u>Firefighting Instructions:</u>
Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
<u>Unusual Fire and Explosion Hazards:</u>
Flammable liquid, toxic gases (such as carbon monoxide and formaldehyde) may be released in a fire.

ACCIDENTAL RELEASE MEASURES – SECTION 6	
<u>Environmental Precautions:</u>	No information available.
<u>Cleanup Methods:</u>	<p><u>Small spills:</u> Eliminate all ignition sources. Ventilate the area. Clean area by flushing with water.</p> <p><u>Large spills:</u> Eliminate all ignition sources. Ventilate the area. Absorb onto inert medium and collect in an approved container.</p>

HANDLING & STORAGE – SECTION 7	
Handling:	All handling equipment should be electrically grounded. Do not allow persons to enter confined areas.
Storage:	Usual precautions for flammable liquids. Store in dry, cool, well ventilated area away from incompatibles.
Specific Uses:	First aid to help decrease the risk of bacterial infection in minor cuts, and scrapes. For external use only.

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EXPOSURE CONTROLS / PERSONAL PROTECTION – SECTION 8

EXPOSURE CONTROLS:

Exposure Limit Values:

	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Isopropyl Alcohol	400 ppm TWA (960 mg/m ³ TWA)	400 ppm TWA (960 mg/m ³ TWA)

Engineering Controls:

Local - ventilation meeting ACGIH criteria. Explosion proof.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:

None required.

Hand Protection:

Rubber gloves for prolonged or repeated use.

Eye/Face Protection:

Splash proof goggles.

Skin Protection:

Use plastic or rubber apron to protect clothing, if needed.

General Hygiene Considerations:

Keep away from all ignition sources.

Other Protective Equipment:

Suitable eyewash facility.

PHYSICAL & CHEMICAL PROPERTIES – SECTION 9

PRODUCT:	Isopropyl Alcohol Spray
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General Information:

Appearance	Clear, colorless liquid
Odor	Alcohol odor

Important Health, Safety, and Environmental Information:

Boiling Point	83°C (181° F)
Melting Point	N/A
Flash Point	87 °C (189 °F)
Explosive Properties	No information available
Oxidizing Properties	No information available
Specific Gravity (H ₂ O = 1)	0.8707

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Water Solubility	Complete
Partition Coefficient (<i>n</i> -octanol/water)	No information available
Viscosity	No information available
Vapor Pressure (<i>mm Hg</i>)	33
Vapor Density (<i>Air = 1</i>)	2.1
Evaporation Rate	1.44
% Volatile (<i>By Volume @ 68 °F</i>)	100

STABILITY & REACTIVITY – SECTION 10

Stability:

This material is stable under normal conditions.

Conditions to Avoid:

Sources of ignition.

Materials to Avoid:

Avoid strong oxidizing agents such as acetyl chloride, nitric acid and hydrogen peroxide.

Hazardous Decomposition Products:

Carbon Dioxide is formed during combustion.

Hazardous Polymerization:

Will Not occur.

TOXICOLOGICAL INFORMATION – SECTION 11

<u>Type of Test</u>	<u>Route of Exposure</u>	<u>Effects</u>	<u>Species Observed</u>	<u>Dose Data</u>
LD ₅₀ (Isopropyl Alcohol):	Oral	Death	Rodent, Rat	5045 mg/kg
LC ₅₀ (Isopropyl Alcohol):	Inhalation	Death	Rodent, Rat	16000 ppm/8H

ECOLOGICAL INFORMATION – SECTION 12

Ecotoxicity:

No information available.

Mobility:

No information available.

Persistence and Degradability:

No information available.



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Bioaccumulative Potential:

No information available.

DISPOSAL CONSIDERATION – SECTION 13

Dispose of in accordance with Local, State, and Federal regulations. Products classified as non-hazardous may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations. Consult your Local, State or Federal Environmental Protection Agency before disposing of any chemicals.

TRANSPORT INFORMATION - SECTION 14

DOT CLASSIFICATION:

UN Number:	N/A
Class:	ORM-D
Proper Shipping Name:	ORM-D
Packing Group:	N/A
Marine Pollutant:	No
Other Information:	ORM-D Consumer Commodity Marking required.

IATA CLASSIFICATION:

UN Number:	ID 8000
Class:	Class 9
Proper Shipping Name:	Consumer Commodity
Packing Group:	N/A
Marine Pollutant:	No
Other Information:	Class 9 Miscellaneous Label required.

IMDG CLASSIFICATION:

UN Number:	UN 1219
Class:	Class 3
Proper Shipping Name:	Isopropyl Alcohol Solution
Packing Group:	II
Marine Pollutant:	No
Other Information:	Limited Quantity

REGULATORY INFORMATION – SECTION 15

US REGULATIONS

ACGIH	TLV (Isopropyl Alcohol): 400 ppm (960 mg/m3)
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CAA Section 112	Not Listed
CERCLA	Not Listed
IARC	Listed: Group 1, 2A or, 2B (Isopropyl Alcohol Manufacture) (Strong Acid Process)
NTP	Not Listed
OSHA	PEL (Isopropyl Alcohol): 400 ppm (960 mg/m3)
SARA Title III	Listed: (Isopropyl Alcohol Manufacture) (Strong Acid Process)
TSCA	Listed: (Isopropyl Alcohol)
<u>STATE REGULATIONS</u>	
MA Substance List	Listed: (Isopropyl Alcohol)
NJ RTK Hazardous Substance List	Listed: (Isopropyl Alcohol)
PA Hazardous Substance List	Listed: (Isopropyl Alcohol Manufacture) (Strong Acid Process)
Canadian WHMIS	Listed: (Isopropyl Alcohol)

OTHER INFORMATION - SECTION 16	
Revision Number	Revision Date
2	04/28/05

To the best of our knowledge, the information contained herein is accurate. However, neither Water-Jel Technologies, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.