

MATERIAL SAFETY DATA SHEET

Hand Sanitizer	MSDS No.:	008
	Revision No.:	4
	Issue Date:	01/15/2008
	Exp. Date:	01/2011

PRODUCT AND COMPANY INFORMATION – SECTION 1	
Manufacturer/Distributor	Water-Jel Technologies
	50 Broad Street
	Carlstadt, NJ 07072
	201-507-8300
	800-275-3433
Product Name:	Hand Sanitizer
Synonyms:	Hand Gel, Hand Cleaner
Intended Use:	Antiseptic hand-wash to decrease bacteria on the skin, recommended for repeated use. 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:	Ethyl Alcohol (Denaturated)
Percent:	Proprietary
CAS Number:	64-17-5
Exposure Limits:	OSHA PEL: 1000 ppm TWA (1900 mg/m ³ TWA)
	ACGIH TLV: 1000 ppm TWA (1900 mg/m ³ TWA)

HAZARDS IDENTIFICATION – SECTION 3	
EMERGENCY OVERVIEW & HAZARDS PRESENT TO MAN AND THE ENVIRONMENT	Component Ethanol is a severe eye irritant, 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.
Inhalation:	High concentrations of vapor can irritate respiratory tract, are anesthetic and may cause CNS depression.

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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 exposure 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.	
<u>FIRST AID MEASURES:</u>	
Eyes:	Flush immediately with clean water for at least fifteen (15) minutes.
Skin: <i>(other than hands)</i>	Intended for hand use without causing irritation but if it comes in contact with other skin areas, which 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			
<i>NFPA Classification</i>			
<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Other</u>
2	3	0	N/A
<u>FLAMMABILITY PROPERTIES</u>			
Flash Point:	22°C (72°F)	Method:	PMCC
Flammability Limits: (in air % by volume)	LEL:	3.3%	UEL: 19%

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<u>Autoignition Temperature:</u>
No information available.
<u>Hazardous Combustion Products:</u>
CO, CO ₂ , 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:	Antiseptic hand-wash to decrease bacteria on the skin recommended for repeated use. For external use only.

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EXPOSURE CONTROLS / PERSONAL PROTECTION – SECTION 8		
<u>EXPOSURE CONTROLS:</u>		
<u>Exposure Limits Values:</u>		
	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Ethyl Alcohol	1000 ppm TWA (1900 mg/m3 TWA)	1000 ppm TWA (1900 mg/m3 TWA)
<u>Engineering Controls:</u>		
Local – ventilation meeting ACGIH criteria. Explosion proof.		
<u>PERSONAL PROTECTIVE EQUIPMENT:</u>		
<u>Respiratory Protection:</u>		
None required.		
<u>Hand Protection:</u>		
N/A		
<u>Eye/Face Protection:</u>		
Splash proof goggles.		
<u>Skin Protection:</u>		
Use plastic or rubber apron to protect clothing, if needed.		
<u>General Hygiene Considerations:</u>		
Keep away from all ignition sources.		
<u>Other Protective Equipment:</u>		
Suitable eyewash facility		

PHYSICAL & CHEMICAL PROPERTIES – SECTION 9	
PRODUCT:	Hand Sanitizer
<u>General Information:</u>	
Appearance	No color added/clear liquid
Odor	Alcohol, Slight Citrus Odor
<u>Important Health, Safety, and Environmental Information:</u>	
Boiling Point	79°C (175°F)
Melting Point	N/A
Flash Point	22°C (72°F)
Explosive Properties	No information available.
Oxidizing Properties	No information available.

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Specific Gravity ($H_2O = 1$)	0.90
Water Solubility	Complete
Partition Coefficient (<i>n</i> -octanol/water)	No information available.
Viscosity	No information available.
Vapor Pressure (<i>mm Hg</i>)	40
Vapor Density (<i>Air = 1</i>)	1.6
Evaporation Rate	> 1
% 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 (Ethyl Alcohol)	Oral	Death	Rodent, Rat	7060 mg/kg
LD ₅₀ (Ethyl Alcohol)	Inhalation	Death	Rodent, Rat	20000 ppm/10H

ECOLOGICAL INFORMATION – SECTION 12

Ecotoxicity:

No information available.

Mobility:

No information available.

Persistence and Degradability:

No information available.

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Bio accumulative 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	
<u>DOT CLASSIFICATION:</u>	
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.
<u>IATA CLASSIFICATION:</u>	
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.
<u>IMDG CLASSIFICATION:</u>	
Un Number:	UN 1170
Class:	Class 3
Proper Shipping Name:	Ethyl Alcohol Solution
Packing Group:	II
Marine Pollutant:	No
Other Information:	Limited Quantity

REGULATORY INFORMATION – SECTION 15	
<u>US REGULATIONS</u>	
ACGIH	TLV (Ethyl Alcohol): 1000 ppm (1900 mg/m3)
CAA Section 112	Not listed
CERCLA	Not listed

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IARC	Not listed
NTP	Not listed
OSHA	PEL (Ethyl Alcohol) 1000 ppm (1900 mg mg/m3)
SARA Title III	Not Listed
TSCA	Not Listed
<u>STATE REGULATIONS</u>	
MA substance List	Listed: (Ethyl Alcohol)
NJ RTK Hazardous Substance List	Listed: (Ethyl Alcohol)
PA Hazardous Substance List	Listed: (Ethyl Alcohol)
Canadian WHMIS	Listed: (Ethyl Alcohol)

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.