

MATERIAL SAFETY DATA SHEET

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|---------------------------------------|-----------------|------------|
| <i>Isopropyl Alcohol Spray</i> | MSDS No.: | 011 |
| | Revision No.: | 6 |
| | Effective Date: | 10/21/2014 |

| 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: | 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. |

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| 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 | |
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| 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. |
| 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> | |
| <i>Eyes:</i> | Prolonged contact may result in corneal injury. |
| <i>Skin:</i> | No information available. |
| <i>Inhalation:</i> | Prolonged inhalation may cause headache, eye, nose and throat irritation, with possible central nervous system effects. |
| <i>Ingestion:</i> | Can cause depression of CNS, nausea, vomiting and/or diarrhea. |

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| FIRST AID MEASURES – SECTION 4 | |
| SEEK MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE. | |
| <u>FIRST AID MEASURES:</u> | |
| <i>Eyes:</i> | Flush immediately with clean water for at least fifteen (15) minutes. |
| <i>Skin:</i> <i>(other than hands)</i> | Intended for hand use without causing irritation but if contacts other skin areas that may become irritated rinse with clean water. |
| <i>Inhalation:</i> | 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. |
| <i>Ingestion:</i> | If ingested, call a physician immediately. |
| <i>Instructions for Physician:</i> | No information available. |

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

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| <p><u>Autoignition Temperature:</u></p> <p>399°C (752°F)</p> |
| <p><u>Hazardous Combustion Products:</u></p> <p>CO, CO2, Nox</p> |
| <p><u>Extinguishing Media:</u></p> <p>Dry chemical, water spray or alcohol resistant foam.</p> |
| <p><u>Prohibited Extinguishing Media:</u></p> <p>No information available.</p> |
| <p><u>Firefighting Instructions:</u></p> <p>Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.</p> |
| <p><u>Unusual Fire and Explosion Hazards:</u></p> <p>Flammable liquid, toxic gases (such as carbon monoxide and formaldehyde) may be released in a fire.</p> |

| ACCIDENTAL RELEASE MEASURES – SECTION 6 | |
|---|--|
| <p><u>Environmental Precautions:</u></p> <p>No information available.</p> | |
| <p><u>Cleanup Methods:</u></p> <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 | |
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| <p>Handling:</p> | <p>All handling equipment should be electrically grounded. Do not allow persons to enter confined areas.</p> |
| <p>Storage:</p> | <p>Usual precautions for flammable liquids. Store in dry, cool, well ventilated area away from incompatibles.</p> |
| <p>Specific Uses:</p> | <p>First aid to help decrease the risk of bacterial infection in minor cuts, and scrapes. For external use only.</p> |

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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> |
| Isopropyl Alcohol | 400 ppm TWA (960 mg/m ³ TWA) | 400 ppm TWA (1900 mg/m ³ 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> | | |
| Rubber gloves for prolonged or repeated use. | | |
| <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 | |
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| PRODUCT: | Isopropyl Alcohol Spray |
| <u>General Information:</u> | |
| Appearance | Clear, colorless liquid |
| Odor | Alcohol odor |
| <u>Important Health, Safety, and Environmental Information:</u> | |
| 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 |
| LD 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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| <u>Bio accumulative Potential:</u> |
| No information available. |

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| 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. |

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| TRANSPORT INFORMATION – SECTION 14 | |
| <u>DOT CLASSIFICATION:</u> | |
| UN Number: | UN1219 |
| Class: | LTD QTY |
| Proper Shipping Name: | Consumer Commodity |
| Packing Group: | N/A |
| Marine Pollutant: | No |
| Other Information: | |
| <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: | UN1219 |
| Class: | Class 3 |
| Proper Shipping Name: | Isopropyl Alcohol Solution |
| Packing Group: | II |
| Marine Pollutant: | No |
| Other Information: | Limited Quantity |

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| REGULATORY INFORMATION – SECTION 15 | |
| <u>US REGULATIONS</u> | |
| ACGIH | TLV (Isopropyl Alcohol): 400 ppm (960 mg/m ³) |
| CAA Section 112 | Not listed |
| CERCLA | Not listed |

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| IARC | Listed: Group 1, 2A or 2B (Isopropyl Alcohol Manufacture) (Strong Acid Process) |
| NTP | Not listed |
| OSHA | PEL (Isopropyl Alcohol) 400 ppm (960 mg/m ³) |
| 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) |

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.