

## MATERIAL SAFETY DATA SHEET ALCOHOL / DI WIPES

### COMPONENT HAZARD DATA:

HAZARD CLASS: Flammable Liquid

	CAS Reg. #	Approx. Weight %	TWA/TVA
Isopropyl Alcohol	67-63-0	70%	TWA-400ppm
USP Water DI	N/A	30%	N/A

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### PHYSICAL PROPERTY DATA:

Appearance/Odor:	Water Clear Liquid.
pH:	7
Melting/Freezing Point:	-88.5° C F.P
Boiling Point:	179° F (82° C)
Vapor Density:	2.0
Solubility in Water:	Complete
% Volatile (By Weight):	100%
Vapor Pressure (mm Hg)	33
Specific Gravity (Water=1):	0.88
Evaporation Rate (Butyl Acetate=1):	2.88

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### FIRE & EXPLOSION DATA:

Flash Point:	64° F (18° C, TCC)
Auto Ignition Temperature:	Will Not Occur
Lower Explosion Limit %:	N/A
Upper Explosion Limit %:	N/A
Extinguishing Media:	Foam, CO <sub>2</sub> , Dry Chemical, and Water Spray

**Special Fire Fighting Procedures:** Firefighters should wear normal protective equipment. Flame exposed containers must be kept cool with water until well after fire is out. Water can be used to flush spills from ignition or disperse vapor.

**Unusual Fire & Explosion Hazards:** Liquid is invisible and flammable, vapors may travel in low areas to ignition source.

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### HEALTH HAZARD DATA:

#### Recommended Work Place Exposure Limits:

TLV and Source: Calculated 500ppm STEL OSHA & ACGIH

#### Effects of Overexposure:

1. Ingestion: May cause vomiting, diarrhea, drowsiness and cramps.
2. Inhalation: May cause mild irritation to nose, throat or above TLV headache.
3. Skin Contact: Prolonged contact results in skin drying.
4. Eye Contact: Slight to moderate irritation, may cause corneal injury.

#### EMERGENCY & FIRST AID PROCEDURES:

- 1) Ingestion: Drink several glasses of water/milk and induce vomiting. Seek medical attention.
- 2) Inhalation: Remove person to fresh air. Seek medical attention if symptoms persist.
- 3) Skin Contact: Wash with soap and water if irritation occurs.
- 4) Eye Contact: Immediately flush with cool water for 15 minutes. If irritation persists, seek medical attention. Remove contaminated clothing and wash before reuse.

**REACTIVITY INFORMATION:**

<b>Stability:</b>	Stable.
<b>Conditions to Avoid:</b>	Keep away from ignition sources, heat, sparks & flame.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	N/A
<b>Incompatibility (Material to avoid):</b>	Concentrated Nitric & Sulfuric acids, Oxidizers, Aldehydes, Halogen Compounds

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**SPILL & LEAK PROCEDURE DATA:**

Pre-saturated Alcohol/Di Wipes: Eliminate ignition sources. Ground handling equipment to prevent sparking. Wear respirator and protective clothing. Dike and contain spill. Suppress vapors with water fog. Soak up residue with absorbent clay or sand. Place in non-leaking containers for disposal.

**WASTE DISPOSAL METHODS:**

Dispose in accordance with all Federal, State or Local Regulations.

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**SPECIAL PROTECTION DATA:**

<b>Ventilation Type:</b>	Local exhaust ventilation to prevent build-up of explosive vapor concentrations and keep below TLV- also see "Health Hazard Information".
<b>Respiratory Protection:</b>	Not normally required with adequate ventilation.
<b>Eye Protection:</b>	Safety Glasses.
<b>Protective Gloves:</b>	Natural Rubber.
<b>Other Protective Equipment:</b>	Eye wash station in area.

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**STORAGE & HANDLING DATA:**

<b>Storage Temperature:</b>	Ambient
<b>Indoor:</b>	Ambient
<b>Heated:</b>	N/A
<b>Refrigerated:</b>	N/A
<b>Outdoor:</b>	Ambient

Store in a cool dry place. Keep containers tightly closed when not in use. Keep away from heat, sparks and flame. Use with adequate ventilation. Keep away from children. Wash with soap and water after use.

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**TOXICITY DATA:**

Unless listed below, this product does not contain greater than the reportable amounts of toxic chemicals as defined under the various regulations under SARA III

<b>Acute Health:</b>	Yes	<b>Sudden release of pressure:</b>	No
<b>Chronic Health:</b>	No	<b>Reportable quantity (RQ):</b>	N/A
<b>Fire:</b>	Yes	<b>313 Toxic Chemical:</b>	Yes

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**MISCELLANEOUS DATA:**

Isopropanol – 3, UN1219, PG II

Date Rev. A: 4/20/01

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