

**Material Safety Data Sheet**

**HMIS®**

**HIL01062**

<b>HEALTH</b>	<b>1</b>	<b>REACTIVITY</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>2</b>	<b>PERSONAL PROTECTION</b>	<b>None</b>

**Identity: HAND SANITIZER**  
**Formula: B909**  
**Part numbers: 90901, 90910, 90956, 90985, 90991**

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

**SECTION 1: Company Identification**

**DISTRIBUTED BY:**  
 HILLYARD INDUSTRIES, INC.

**DATE:**  
 September 6, 2006

**Address (Number, Street, City, State, and ZIP Code)**  
 302 North Fourth Street (P.O. BOX 909)

**Emergency Telephone Number**  
 1-800-424-9300

St. Joseph, MO 64502

**Telephone Number for Information**  
 1-800-233-1321 ext. 8285

[www.hillyard.com](http://www.hillyard.com)

**Signature of Preparer (Optional)**  
 Regulatory Dept.

**SECTION 2: Ingredients/Identity Information**

Components (Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended	% (Opt.)
Water	7732-18-5	None	None	None	60 – 100%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	3300 ppm (IDLH)	10 – 30%

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

**SECTION 3: Hazards Identification**

Route(s) of Entry	Eyes?	Inhalation?	Skin?	Ingestion?
	Yes	Yes	No	Yes

**Acute Health Hazards** - Warning. Causes Eye Irritation. May be harmful if swallowed. Deliberate concentration and inhalation of vapors may cause central nervous system effects. Follow good chemical hygiene practices to avoid these hazards.

**Chronic Health Hazards** - Prolonged skin exposure may lead to dermatitis.

**Carcinogenicity:**

<b>Chemical:</b> None	<b>OSHA:</b> No	<b>NTP:</b> No	<b>IARC:</b> No
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**Signs and Symptoms of Exposure** - Redness, tearing or burning in eyes. Redness, burning, drying or cracking of skin. Swallowing may cause nausea, diarrhea, dozziness, dizziness, fatigue, or loss of coordination.

**Medical Conditions Generally Aggravated by Exposure** - Pre-existing skin or gastrointestinal disorders may be adversely affected. Follow good chemical hygiene practices to avoid these hazards.

**SECTION 4: Emergency and First Aid Procedures:**

- Eyes** - Flush with plenty of water for at least 15 minutes lifting eyelids to insure complete removal. See a physician immediately.
- Ingestion** - Not a likely exposure route. If a large quantity of liquid is swallowed call a physician or poison control center immediately.
- Inhalation** - Unlikely route of exposure as liquid is impregnated on a towel. If overexposed move into fresh air. If breathing has stopped, qualified personnel should administer artificial respiration and seek medical attention.
- Skin** - None usually required. If irritation persists seek medical attention.

**SECTION 5: Fire Fighting Measures**

<b>Flash Point, Concentrate (Method Used)</b> 107° F (PMCC)	<b>Flammable Limits</b> No Data	<b>LEL</b> No Data	<b>UEL</b> No Data
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**Extinguishing Media** - Use carbon dioxide, dry chemical, foam, or fog. Do not use water as it may froth and cause fire to spread.

**Special Fire Fighting Procedures** - Keep containers cool and vapors down with water spray. Prevent runoff from entering sewers and public waterways. Wear SCBA in chemical fires.

**Hazardous Products of Combustion**-Carbon dioxide, carbon monoxide, formaldehyde, nitrous oxide, ammoniacal vapors, smoke, soot and various organic oxidation by-products.

**Unusual Fire and Explosion Hazards** - Combustible liquid on a polypropylene towel.

#### SECTION 6: Accidental Release Measures

**Small Spill** – Caution, slip hazard. Wipe up small releases with a dry absorbent cloth or other absorbent material.

**Large Spill** – Not likely due to type of product.

#### SECTION 7: Handling and Storage

**Handling** - Do not get into eyes. Do not swallow. Avoid prolonged skin contact. For external use only. Not for use around the mouth or eyes for an extended period of time. Use from original container only. Do not smoke while using. Do not contaminate water, food or feed by use or storage. Follow label directions carefully.

**Storage** – Store in a cool well ventilated area. Keep away from heat sources. Keep out of reach of children. Keep from freezing. Keep container tightly sealed when not in use.

#### SECTION 8: Exposure Controls / Personal Protection

**Eye Protection** – None necessary. Do not allow towel to directly contact eyes.

**Skin Protection** – None necessary. Product is designed for direct skin use.

**Respiratory Protections** – Not usually necessary. Use with adequate ventilation. Use NIOSH/MSHA approved respirator if PELs or TLVs are exceeded.

**Engineering Controls** – Ventilation not usually necessary but should be provided in the event of overexposure.

#### SECTION 9: Physical and Chemical Properties

<b>Appearance and Odor:</b>	Colorless liquid with an alcohol – floral scent saturated on a towel
<b>PH</b>	6.0 ± 0.5
<b>Specific Gravity (70°F)</b>	0.970
<b>Boiling Point:</b>	212° F
<b>Melting Point:</b>	N/A
<b>Evaporation Rate (Butyl Acetate = 1)</b>	N/A
<b>Vapor Pressure (mm-Hg @ 70°F)</b>	N/A
<b>Vapor Density (AIR = 1)</b>	Greater than 1
<b>Solubility in Water</b>	Complete
<b>Volatile Organic Compounds (VOCs)</b>	179 grams per liter or 18.5% by weight VOCs.

#### SECTION 10: Stability and Reactivity

**Hazardous Polymerization** – This product will not undergo hazardous polymerization.

**Hazardous Decomposition or Byproducts** – Carbon dioxide, carbon monoxide, formaldehyde, nitrous oxide, ammoniacal vapors, smoke, soot and various organic oxidation by-products.

**Chemical Stability** - Stable

**Incompatibility (Materials to Avoid)** - Strong oxidizing agents such as acetyl chloride, nitric acid, and hydrogen peroxide.

#### SECTION 11: Toxicological Information

**Ethyl Alcohol:** Inhalation LC50: 20,000 ppm/10H, rat  
Oral LD50: 7060 mg/kg, rat  
Eye Irritation: 50 mg/24 H Severe, rabbit

#### SECTION 12: Ecological Information

**Ethyl Alcohol:** Soil: readily biodegrades, quickly evaporates, leaches into groundwater

Water: readily biodegrades, evaporates to moderate extent, Does not bioaccumulate

Air: readily degrades by reaction with photochemically produced hydroxyl radicals, readily removed by dry and wet deposition, has a half-life between 1 and 10 days.

### SECTION 13: Disposal Consideration

**Disposal Method** - Dispose of in accordance with all applicable local, state, and federal regulations.

**RCRA Waste Information** – If this product becomes a waste, the liquid would be considered a flammable liquid (D001) as defined by RCRA (40 CFR 261). However the waste should be properly characterized to evaluate whether its composition has been modified prior to disposal.

### SECTION 14: Transport Information

#### DOT Information – 49 CFR 172.101

**Proper Shipping Description:** Not Regulated

**Hazard Class:** None

**Identification Number:** None

**Packing Group:** None

#### Water Transportation:

**Proper Shipping Description:** Flammable liquid, N.O.S., (Ethanol)

**Hazard Class:** 3

**Identification Number:** UN 1993

**Packing Group:** III

#### Air Transportation:

**Proper Shipping Description:** Flammable liquid, N.O.S., (Ethanol)

**Hazard Class:** 3

**Identification Number:** UN 1993

**Packing Group:** III

**Marine Pollutants:** None

### SECTION 15: Regulatory Information

#### US Federal Regulations:

##### TSCA (Toxic Substances Control Act) Status

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

##### CERCLA RQ – 40 CFR 302.4 (a)

None Listed

##### SARA 313 Components – 40 CFR 372.65

tert-Butyl alcohol – 0.02% (CAS # 75-65-0)

#### State and Local Regulations:

##### California Proposition 65

None

### Section 16: Additional Information

**WARNING!** The use of this product is beyond the control of the manufacturer; therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer warrants only that this product meets the manufacturer's specifications for such product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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