



HAND SANITIZER

MSDS S-107 (Rev. 12)

July 2, 2010

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing respiratory illnesses or skin conditions.

### POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12: Ecological Information.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Based on our hazard evaluation, the following chemical substance(s) in this product have been identified as hazardous.

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT (w/w)</u>
Ethyl Alcohol	64-17-5	62 %

## SECTION 4: FIRST AID MEASURES

**EYES:** Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persists.

**SKIN:** Rinse affected area with mild soap and water until no evidence of product remains. Get medical attention if irritation persists.

**INGESTION:** Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

**INHALATION:** Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

**NOTE TO PHYSICIAN:** The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

## SECTION 5: FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

OSHA FLAMMABILITY CLASSIFICATION: Flammable Liquid Class IC

FLASH POINT: 76 °F

UPPER FLAMMABILITY LIMIT: Not available

LOWER FLAMMABILITY LIMIT: Not available

AUTO-IGNITION TEMPERATURE: Not applicable

**FIRE AND EXPLOSION HAZARD:** Mixture is a flammable liquid. Vapors are heavier than air and may travel to an ignition source.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and oxides of nitrogen.

### EXTINGUISHING MEDIA

Alcohol resistant foam, dry chemical or carbon dioxide. For larger fires, flood with fine water spray or alcohol-resistant foam.

### PROTECTION OF FIREFIGHTERS

Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as fog. Avoid breathing vapors; keep upwind.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

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Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

ENVIRONMENTAL PRECAUTIONS

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

METHODS FOR CONTAINMENT AND CLEAN UP

Shut off ignition sources. Stop leak if you can do it without risk. Use water spray to reduce vapors. Isolate area until vapors have dispersed. No smoking, flames or flares in hazard area! Keep unnecessary people away; isolate hazard area and deny entry. Ventilate closed spaces before entering. Stay upwind; keep out of low areas.

SMALL SPILLS: Absorb with sand or other non-combustible material. Containerize for disposal. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

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## SECTION 7: HANDLING AND STORAGE

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HANDLING:

No unusual handling requirements. Do not get in eyes. Do not take internally.

STORAGE:

Flammable liquid. Store away from incompatible substances, excessive heat, flames, sparks or other ignition sources. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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This product is a personal care product. The use of this product by consumers is safe under normal and reasonable foreseen use. The information provided below refers to the occupational settings.

WORKER EXPOSURE LIMITS

The following exposure limits exist for the ingredients listed below. The TLV-TWA is the ACGIH Threshold Limit Value – Time Weighted Average. PEL-TWA is the OSHA Permissible Exposure Limit - Time Weighted Average.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Ethyl Alcohol	64-17-5	TLV-TWA: 1000 ppm (1880 mg/m <sup>3</sup> ), PEL-TWA: 1000 ppm (1880 mg/m <sup>3</sup> )

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

RESPIRATOR: Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Any self-contained breathing apparatus that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

CLOTHING: Protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES: Protective clothing is required where repeated or prolonged skin contact may occur.

EYE/FACE PROTECTION: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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HAND SANITIZER APPEARANCE:	Water white or clear colored gel	MSDS S-107 (Rev. 12)	July 2, 2010
ODOR/ODOR THRESHOLD:	Pleasant alcoholic odor	PHYSICAL STATE:	Liquid
pH (@ 25°C):	6 – 8.5	VAPOR DENSITY:	Not available
BOILING POINT:	Not available	VAPOR PRESSURE:	Not available
MELTING/FREEZING POINT:	Not available	FLASH POINT:	See Section 5.
FLAMMABLE PROPERTIES:	See Section 5.	SOLUBILITY IN WATER:	Complete
DENSITY/SPECIFIC GRAVITY:	0.89	EVAPORATION RATE:	Not available
OCTANOL/WATER PARTITION COEFFICIENT (K <sub>ow</sub> ):	Not available		
VISCOSITY (Dynamic):	7,000 - 12,500 cps		

## SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
CONDITIONS TO AVOID:	Avoid storing in direct sunlight and avoid extremes of temperature.
INCOMPATIBLE MATERIALS:	Strong oxidizers, metals, acids, peroxides, bases, and combustible materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may release toxic and/or hazardous gases.
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

## SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION SUMMARY: This product is a personal care or cosmetic product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes cause irritation. May be harmful if swallowed. No adverse effects are anticipated to skin from normal use. Repeated or prolonged contact to skin may cause irritation or dermatitis.

COMPONENT ANALYSIS: The following toxicity information is for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
ACUTE ORAL TOXICITY Ethyl Alcohol	> 5,000 mg/kg (rat)	Practically Non-hazardous

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: IARC classifies ethanol as "Human Sufficient Evidence" from chronic ingestion of alcoholic beverages.

MUTAGENICITY: None of the ingredients in this product are known to cause mutagenicity.

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: Ethanol crosses the placenta and can cause acute intoxication of the newborn or teratogenic effects, including fetal alcohol syndrome.

TARGET ORGAN TOXICITY: Ethanol consumption produces depressant effects in the central nervous system.

EPIDEMIOLOGICAL INFORMATION: None of the ingredients in this product are known to have health-related information in working populations.

## SECTION 12: ECOLOGICAL INFORMATION

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

PRODUCT / INGREDIENT	LC50/EC50 (ANIMAL SPECIE)	TOXICITY RATING
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**VERTEBRATES**

Ethyl Alcohol

96-hr LC50: 14.2 mg/L (Pimephales promelas)  
96-hr LC50: 12,900 mg/L (Oncorhynchus mykiss)  
(flow-through) (30 days old)

Harmful  
Practically Non-Hazardous

**INVERTEBRATES**

Ethyl Alcohol

48-hr EC50: 9,268 mg/L (Daphnia magna)

Practically Non-Hazardous

**ENVIRONMENTAL FATE:** No environmental fate data exists for the product. The product is anticipated to be rapidly biodegradable.

**PERSISTENCE AND DEGRADABILITY:** The persistence and degradability of this product has not been determined.

**BIOACCUMULATION POTENTIAL:** The bioaccumulation potential of this product has not been determined.

**MOBILITY:** The mobility of this product (in soil and water) has not been determined.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE NUMBER AND DESCRIPTION:**D001.

**DISPOSAL CONSIDERATIONS:** This product is characteristic (ignitable) RCRA hazardous waste and must be disposed of in accordance with federal, state and local regulations.

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## SECTION 14: TRANSPORT INFORMATION

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**TERRESTRIAL TRANSPORT**

DOT Hazard Class:

ORM-D

Packing Group:

II

DOT Proper Shipping Name:

Consumer Commodity

Shipping Label Information: Miscellaneous 9

UN/NA Number:

ID 8000

Combustible liquid (Liters and smaller are classed as Consumer Commodity ORM-D except when shipped by air).

**AIR TRANSPORT (ICAO/IATA)**

ICAO/IATA Hazard Class:

ORM-D ID 8000

**MARINE TRANSPORT (IMDG/IMO)**

IMDG/IMO Hazard Class: ORM-D

ICAO/IATA Proper Shipping Name:

Consumer Commodity

Proper Shipping Name: Consumer commodity

If the quantity being shipped exceeds the Limited quantity or Maximum Net Quantity requirements as stated in IATA/IMDG/DOT/CFR49 and/or is NOT RETAIL Packed the item (s) classification will shift to a more specific proper shipping name and classification. Please refer to IATA/IMDG/DOT/CFR49 regulations and/or contact Rich Sheridan 480 754 2379 or Paul Preston 480 754 6792.

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## SECTION 15: REGULATORY INFORMATION

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**UNITED STATES:**

**OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:**

The Occupational Safety and Health Administration requires Material Safety Data Sheets to provide any hazards that may be associated with the product, and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain additional health hazard information not pertinent to consumer use.

**FOOD AND DRUG ADMINISTRATION:**

This product is regulated as an over-the-counter under the Food and Drug Administration.

**EPA - SARA TITLE III SECTION 313:** Not applicable - Consumer product.

**EPA CERCLA/SARA TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:**

This product contains no CERCLA/SARA Title III materials. This product contains no hazardous chemicals reportable under Sections 311/312. This product contains no hazardous chemicals reportable under Section 304.

**TSCA:** All components of this product are either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

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**STATE REGULATIONS**

CALIFORNIA PROPOSITION 65: This product does not contain substances listed under California Proposition 65.

**CANADA:**

CANADIAN ENVIRONMENTAL PROTECTION ACT:

INVENTORY STATUS: Some components of this product are not listed on the Canadian Domestic Substances List (DSL) nor the NDSL.

HEALTH CANADA:

This product is not registered for sale in Canada.

WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: Not subject to classification.

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**SECTION 16: OTHER INFORMATION**

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DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=3 REACTIVITY=0  
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=3 REACTIVITY=0

MSDS CREATION DATE: 03/31/97

SUPERCEDES: 01/06/10, Rev. 11

REVISION DATE: 07/02/10

REVISION: Updated Trade Names and Formula I.D. Numbers.