

# MATERIAL SAFETY DATA SHEET

## HAND SANITIZER GEL

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Manufactured by:  
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Date Prepared

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### I — MATERIAL IDENTIFICATION AND INFORMATION

Hazard Type **FIRE, IMMEDIATE**  
Identifying Characteristics **CLEAR, COLORLESS, SPECIALLY DENATURED ALCOHOLIC SOLUTION WITH A CLEAN CITRUS-LIKE ODOR.**  
General Information **THIS PRODUCT IS FOR INDUSTRIAL/COMMERCIAL USE. KEEP AWAY FROM CHILDREN. THIS PRODUCT DOES NOT CONTAIN SARA III 313 (FORM R) REPORTABLE INGREDIENTS.**

### II — COMPOSITION/INFORMATION ON INGREDIENTS

Component	Cas No.	Percent	OSHA PEL	ACGIH TLV	Other	Units
Ethanol	64-17-5	52.86	1000	1000		ppm
Methanol	67-56-1	2.82	200	200	250	STEL ppm
Water	7732-18-5	42.47	NA	NA		NA

### III — HEALTH HAZARDS

Emergency Overview **THIS IS A FLAMMABLE LIQUID. DO NOT EXPOSE TO EXCESSIVE HEAT OR FLAME. DIRECT CONTACT WITH THE EYES WILL BE IRRITATING.**  
Routes of Entry **INHALATION, INGESTION, EYE, SKIN**  
Immediate Health Effects **DIRECT CONTACT WITH THE EYES WILL CAUSE PAIN AND IRRITATION. INHALATION OF EXCESSIVE VAPORS MAY CAUSE HEADACHE AND BE IRRITATING TO THE RESPIRATORY SYSTEM. INGESTION MAY CAUSE BLINDNESS, DIZZINESS AND FATIGUE.**  
Long Term Effects **PRE-EXISTING DISORDERS OR DISEASES OF THE NERVOUS SYSTEM, LIVER, RESPIRATORY SYSTEM, SKIN, KIDNEYS, AND EYES MAY BE AGGRAVATED BY PROLONGED OR REPEATED EXPOSURE.**  
Other Hazards **NONE LISTED**  
Carcinogen **THIS PRODUCT'S INGREDIENTS ARE NOT FOUND IN OSHA, NTP, IARC, OR APD LISTS.**

### IV — FIRST AID PROCEDURES

#### SIGNS AND SYMPTOMS OF EXPOSURE / FIRST AID PROCEDURES

Eye contact **PAIN AND IRRITATION / FLUSH THE EYES WITH RUNNING WATER FOR FIFTEEN MINUTES. SEEK MEDICAL ATTENTION IF THE IRRITATION PERSISTS.**  
Skin contact **DRY, RED, CRACKING, ITCHING / WASH THE HANDS WITH MILD SOAP AND WATER AND AVOID EXCESSIVE USE OF THE MATERIAL IN THE FUTURE. CONSULT A DERMATOLOGIST IF THE PROBLEM PERSISTS.**  
Ingestion **NAUSEA AND VOMITING / IF CONSCIOUS, HAVE THE VICTIM DRINK WATER TO DILUTE. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. THIS MATERIAL MAY BE ASPIRATED INTO THE LUNG DURING VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.**  
Inhalation **RESPIRATORY IRRITATION, HEADACHE, DIZZINESS / REMOVE THE VICTIM TO FRESH AIR. IF THE VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION AND SEEK MEDICAL HELP IMMEDIATELY.**  
Medical conditions that are aggravated by exposure **REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS.**

### V — FIRE AND EXPLOSION HAZARD DATA

Flash point **55° F** Method **TCC**  
Flammability Classification **FLAMMABLE LIQUID WILL IGNITE IF LIQUID WITH FP < 73 F AND BP > 100 F OR FP > 73 AND BP < 100 F**  
Flammability Limits in Air **LEL = 3.3%; UEL = 19%; (FOR PURE ETHANOL)**  
NFPA Flammable/Health/Safety Ratings  
Health (Blue) **0 = NO HAZARD**  
Flammability (Red) **3 = HIGH TEMPORARY OR PERMANENT INJURY**  
Reactivity (Yellow) **0 = NO HAZARD**  
Special (White) **NA**  
Extinguishing Media **CLASS B = CARBON DIOXIDE OR ALCOHOLIC FOAM FOR FLAMMABLE LIQUIDS AND GASES**  
Special Fire Fighting Procedures **AS IN ALL FIRES INVOLVING CHEMICAL MATERIALS, FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. WATER MAY BE INEFFECTIVE EXCEPT AS A BLANKET AND A COOLANT FOR FIRE EXPOSED CONTAINERS.**  
Unusual Fire and Explosion Hazards **ETHANOL VAPORS ARE HEAVIER THAN AIR AND THEY MAY TRAVEL SOME DISTANCE FROM THEIR SOURCE TO A SOURCE OF IGNITION AND FLASH BACK. FLAMES RESULTING FROM AN ALCOHOL FIRE MAY NOT BE READILY VISIBLE UNDER SOME LIGHTING CONDITIONS.**

### VI — ACCIDENTAL RELEASE PROCEDURES

Small Spill **ABSORB OR WIPE UP THE LIQUID AND FLUSH THE RESIDUAL MATERIAL TO THE DRAIN.**  
Large Spill **TURNOFF OR ELIMINATE SOURCES OF IGNITION. ABSORB THE LIQUID AS WELL AS POSSIBLE FOR DISPOSAL. FLUSH THE RESIDUAL MATERIAL TO THE DRAIN WITH PLENTY OF WATER.**

### VIII — HANDLING AND STORAGE

**STORE THE MATERIAL IN A COOL, WELL-VENTILATED AREA AWAY FROM SOURCES OF IGNITION AND STRONG OXIDIZERS.**

### VII — EXPOSURE CONTROLS, PERSONAL PROTECTION

**USE THE MATERIAL IN WELL-VENTILATED AREA.**

### IX — PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point **78° F**  
Pure or Mixture **MIXTURE**  
Vapor Pressure **44.6 MM HG**  
Melting Point **-173° F**  
Evaporation Rate **NDA**  
pH **NDA**  
Vapor Density (Air=1) **1.59 (PURE ETHANOL)**  
Ignition Temperature **685 F**  
Solubility in Water **COMPLETE**  
Physical State **LIQUID**  
Other Physical/Chemical Data **SP GR = 0.85 @ 60° F**  
How to detect this substance **THIS IS A WATER-WHITE LIQUID WITH A MILD CLEAN, CITRUS-LIKE ODOR AND A SOAPY FEEL TO THE TOUCH.**

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## X — STABILITY AND REACTIVITY

Stability	GENERALLY STABLE
Hazardous Polymerization	NO
Incompatibilities	ACETYL CHLORIDE AND OTHER OXIDIZING AGENTS
Conditions to avoid	EXCESSIVE HEAT AND OPEN FLAME
Decomposition Products	OXIDES OR CARBON
Other reactivity data	NDA

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## XI — TOXICOLOGICAL INFORMATION

THE CALCULATED LC50 FOR THE INHALATION  
OF THE MIXTURE IS GREATER THAN 5000 PPM.

THE CALCULATED LC50 FOR THE SKIN CONTACT  
OF THE MIXTURE IS GREATER THAN 1000 MG/KG.

THE CALCULATED LC50 FOR THE INGESTION  
OF THE MIXTURE IS 500 MG/KG.

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## XII — ECOLOGICAL INFORMATION

Note: There are no data available (NDA) on the mixture of product components. Information that is based on knowledge of the components, is being offered as follows:

**IT IS ANTICIPATED THAT THIS MATERIAL WILL NEITHER ADSORB  
TO SOIL NOR BIOCONCENTRATE IN AQUATIC ORGANISMS.**

**ONCE IT IS IN WATER, PHOTOLYSIS, OXIDATION, HYDROLYSIS  
AND BIODEGRADATION ARE ANTICIPATED TO OCCUR.**

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## XIII — DISPOSAL CONSIDERATIONS

**THIS IS A FLAMMABLE LIQUID. HOWEVER, IT IS POSSIBLE THAT THE  
MATERIAL MAY HAVE UNDERGONE CHANGES DURING USE AND IT IS THE  
RESPONSIBILITY OF THE WASTE GENERATOR TO CHARACTERIZE THE  
WASTE STREAM TO ENSURE THAT APPLICABLE STATE, LOCAL, AND  
FEDERAL REQUIREMENTS ARE MET.**

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## XIV — TRANSPORT INFORMATION

DOT Hazard Class	CLASS 3 — FLAMMABLE LIQUID
DOT Proper Shipping Name	DENATURED ALCOHOL
Other DOT Information	IDENTIFICATION NO. NA1987 PACKING GROUP II EMERGENCY RESPONSE GUIDE NO. 26

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## XV — REGULATORY INFORMATION

The components of this mixture (material) are listed in Toxic Substances Control Act (TSCA Inventory of Chemical Substances).

SARA Title III Sections 311 and 312 Hazard Categories  
**IMMEDIATE/ACUTE. DELAYED/CHRONIC. FIRE**

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## XVI — OTHER INFORMATION

DISCLAIMER: These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. In the event of any question, please call the telephone number provided.