

MATERIAL SAFETY DATA SHEET

HAND SANITIZER GEL

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Manufactured by:
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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 TURN OFF 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.

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

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.

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.

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.

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

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

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.