SAFETY DATA SHEET

Revision Date: 18-AUG-2020 Issuing Date: 18-AUG-2020

SECTION 1: IDENTIFICATION

Product name:	Hand Sanitizer
Product ID:	HS02-300ML, HS05-30ML-AL, HS06-500ML-AL, HS20-GAL-AL
Product type:	Finished Product
Recommended use:	Hand Sanitizer
Manufacturer or Distributor:	Diversified Hospitality Solutions 27980 Oak Ridge Rd. Suite B Escondido, CA 92026 619-312-0003
E-mail Address:	office@diversifiedhospitality.com
Emergency Telephone:	ChemTel Inc. 1-800-255-3924 (Contract # MIS4218947)

SECTION 2: HAZARD IDENTIFICATION

Eye damage/irritation:	2A
Signal word:	Danger
Hazard statements:	Highly Flammable liquid and vapor; Causes serious eye irritation
Hazard pictograms:	 Flammable liquids Category 2  Eye Damage/Irritation Category 2A
Precautionary statements - prevention:	Keep away from heat/sparks/open flames/hot surfaces – no smoking; Ground/bond container and receiving equipment; Use explosion-proof electrical/ventilating/lighting equipment; Use only non-sparking tools; take precautionary measures against static discharge; Do not eat, drink or smoke when using product; Avoid release to the environment; Wear protective gloves and eye/face protection; In case of fire use dry sand, dry chemical or alcohol-resistant foam for extinction. Observe good industrial hygiene practices; Store in well ventilated place; Keep Cool
Precautionary statements - response:	IF ON/IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses if present and easy to do; Continue rinsing Take off contaminated clothing and wash it before reuse IN CASE OF FIRE: Use dry sand, dry chemical or alcohol-resistant foam for extinction
Precautionary statements - storage:	Keep container tightly closed
Precautionary statements - disposal:	Dispose of contents/container in accordance with local regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition

Chemical name	CAS No.	Formula	EINECS	Composition
Ethanol	64-17-5	C_2H_5OH	200-578-6	**
Water	7732-18-5	H_2O	231-791-2	**
Dichlorobenzyl alcohol	1777-82-8	$C_7H_6Cl_2O$	217-210-5	**
Acrylates/C10-30 alkyl acrylate crosspolymer	/	/	/	**
Triethanolamine Methyl Gluceth-20	1002-71-6	C6H15NO3	203-049-8	**
Glycerin	56-81-5	$C_3H_8O_3$	200-289-5	**

Organic Aloe Barbadensis Leaf Juice	85507-69-3	/	287-390-8	**
Tocopherol	59-02-9	C29H50O2	200-412-2	**
Fragrance	/	/	/	/

**The composition and specific chemical identity and/or exact percentage (concentration) has been withheld as proprietary

SECTION 4: FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact:	Causes serious eye irritation. Symptoms may include redness, pain, swelling, itching, burning, tearing and blurred vision
Skin contact:	None under normal use
Ingestion:	Ingestion is likely to be harmful or have adverse effects
Inhalation:	Assure fresh air breathing. When Symptoms occur go into open air and ventilate suspected area
Most important symptoms/effects, acute and delayed:	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically; Refer to SDS
Genera Information:	Keep victim warm and quiet; Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves

SECTION 5: FIRE-FIGHTING MEASURES

Flammable Properties:	Constituents in product may have a very low flashpoint: Use of water spray when fighting fire may be inefficient
Suitable extinguishing media:	Water spray, Fog or alcohol-resistant foam; Dry chemical powder; Carbon dioxide
Unsuitable extinguishing media:	Massive Fires: Do not use unmanned hose holders Large Fires: Do not use straight streams; Do not scatter spill material with high pressure streams Small Fires: Do Not use dry chemical extinguishers to control fires involving nitromethane or nitroethane
Special hazard:	Highly flammable: will be easily ignited by heat, sparks or flames; Vapors may travel to source or ignition and flashback; Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks)
Special protective equipment for fire-fighters:	Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear must be worn in case of fire

Fire-fighting Equipment/Instructions

Fire involving tanks or car/trailer loads:	Fight fire from a distance or use unmanned hose holders or monitor nozzles; Cool containers with flooding quantities of water until well after fire goes out; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank; Always stay away from tanks engulfed in fire; For massive fire, do not use unmanned hose holders or monitor nozzles; if it is possible, withdraw from area and let fire burn; Large fires: Do not use straight streams, Move containers from fire area if you can do it without risk, Dike fire-control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and protections:	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area)

Keep unnecessary personnel way. For personal protection see Section 8 of the SDS
All equipment used to handle the product must be grounded
Do not touch or walk through spilled material

Environmental precautions: Avoid discharge into drains, water courses or onto the ground
Eliminate all ignition sources (no smoking, sparks or flames in immediate areas)
A vapor suppressing foam by be used to reduce vapors
Prevent dust cloud

Methods of containment and cleaning up: Large spills – Stop the flow of material, if this is without risk. Dike the spilled area where possible. Absorb in dry earth, sand or other noncombustible material and place in containers. Use clean non-sparking tools to collect absorbed materials.

Small spills – With clean shovel place material into a clean dry container and cover loosely, move containers from spill area.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces – no smoking. Use grounding and bonding connections when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

Handle empty containers with care because residual vapors are flammable.

Avoid prolonged exposure. Observe good industrial hygiene practices. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothes and protective equipment to remove contaminates.

Storage and Incompatibilities: Store in original tightly closed container. Store away from incompatible materials (see section 10 or the SDS)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENTS	LIMIT TYPE	OSHA PEL	ACGIH TLV	NIOSH REL
Ethanol	TWA	TWA: 1000 ppm TWA: 1900 mg/m^3	STEL 1000 ppm	TWA: 100 ppm TWA: 1900 mg/m^3
Glycerin	TWA	TWA: mg/m^3	TWA: 10 mg/m^3	
Triethanolamine	TWA		TWA: 5 mg/m^3	

Notes: PEL = Permissible Exposure Limit; PPM= Parts per Million; REL = Recommended Exposure Limit; TVL = Threshold Limit Value.
TWA = Time-Weighted Average. All values are based on 2012 standards

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure eye wash stations and safety showers are close to the workstation location.

PPE: Chemical resistant gloves, apron, boots, goggles/face shield

General Hygiene: Handle in accordance with good hygiene and safety practice

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Form:	Clear liquid
Odor:	Alcohol and Fragrance
Odor threshold:	No information available

Property	Values Note
PH value:	No information available
Relative evaporation rate:	No information available
Melting/freezing point:	No information available
Boiling point/boiling range:	No information available
Flash point:	13 – 18C (55,4 – 64.4F)
Auto ignition temperature:	No information available
Decomposition temperature:	No information available
Flammability (solid, gas):	No information available
Flammability limits in air:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Relative density:	No information available
Bulk Density	7.01 – 7.58 lb/gal
Solubility in other solvents:	Soluble in water
Partition coefficient (n-octanol/water):	No information available
Viscosity of product:	No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None under normal use conditions
Stability:	Stable under normal conditions
Hazardous reactions:	None under normal processing
Conditions to avoid:	Heat, sparks and open flames Direct sunlight Extremely high or low temperatures
Materials to avoid:	Strong acids, strong bases, strong oxidizers, silver salts, acid chlorides, alkali metals, metal hydrides, hydrazine
Hazardous decomposition products:	Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Ethanol

LC50 Inhalation	Rat	124.7 mg/L	4 hours
LD50	Rabbit	20 ml/kg	
LD50	RAT	10470 mg/kg	

Glycerin

LD50 Dermal	Rabbit	>10,000 mg/kg	
LD50 Oral	Rat	21,200 mg/kg	

Ethanol

LD50 Oral	Mouse	5,846 mg/kg	
LD50 Oral	Rat	5,530 mg/kg	

Routes of Exposure

Eye Contact – Causes serious eye irritation

Skin Contact – No know significant effects or critical hazards

Inhalation – vapors may cause dizziness or suffocation

Toxicological Effects

May cause slight redness and tearing of eyes

Mutagenicity

Not available

Carcinogenicity
Not classified

Reproductive Toxicity
No data available

Specific Target Organ Toxicity-Single Exposure
No data available

Specific Target Organ Toxicity-Repeated Exposure
No data available

Aspiration Hazard
No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Ethanol

EC50 Daphnia magna	9268-14221 mg/L (48 h)
LC50 Pimephales promelas	>100 mg/L (96 h static)

Persistence and Degradability
No data available

Bio accumulative Potential
Ethanol
Log P(0/w): -0.32

Mobility in Soil
No data available

Water Solubility
Water Soluble

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Regulations
Dispose in accordance with all applicable regulations

Waste from Residues/ Unused Products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. The material and its container must be disposed of in a safe manner

Hazardous Waste Code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company

Contaminated Packaging
Follow label warnings. Containers should be taken to an approved waste handling site for appropriate disposal

SECTION 14: TRANSPORT INFORMATION

DOT

UN Number	UN1170
UN Proper Shipping Name	UN1170, Ethanol Solutions, 3, PG II

Transport Hazard Classes	3
Packing Group	II
ERG	127

IATA and IMO

UN Number	UN1170
UN Proper Shipping Name	UN1170, Ethanol Solutions, 3, PG II
Transport Hazard Classes	3
Packing Group	II
ERG	3L

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations
Not regulated

TSCA Section 12(b) Export Notifications (40 DFR,7078, Subpt.D)
Listed on the United States TSCA
Ethanol
US, OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated

CERCLA (Superfund) Reportable Quantities
Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)
313 NA
311, 312 – NA

Clean Air At (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)
Not regulated

Safe Drinking Water Act (SDWA)
Not regulated

SECTION 16: OTHER INFORMATION

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This document has been prepared in accordance with SDS requirements of the OSHA Hazard Communication Standard 29CFR 1910.1200(d)

Disclaimer
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End of SDS