

Issue Date: 27-Mar-2020

Revision Date: 03-Apr-2020

Version 2

1. IDENTIFICATION

Product Identifier

Product Name Hand Sanitizer

Other means of identification

SDS #
 Item M-05029, M-05025, M-05027

Recommended use of the chemical and restrictions on use

Recommended Use Hand Sanitizer

Details of the supplier of the safety data sheet

Supplier Address
 ASHBURN CHEMICAL TECHNOLOGIES
 7403 Wright Rd
 Houston, TX 77041

Emergency Telephone Number

Company Phone Number 832-399-1000
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance clear, colorless

Physical State Liquid

Odor alcohol-like

Classification

Flammable liquid	Category 2
Eye irritation	Category 2A

Signal Word

Warning

Hazard Statements

H225 Highly flammable liquid and vapor.
 H319 Causes serious eye irritation.



Precautionary Statements - Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective eye protection/ face protection

Precautionary Statements - Response

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before reuse.
 P312: Call a poison center or doctor/physician if you feel unwell.
 P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
 P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 P338 Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P235 Keep cool
 P405 Store locked up

Precautionary Statements - Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown Acute Toxicity

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name (and synonyms)	CAS No	Weight-%
Ethyl Alcohol (Ethanol)	64-17-5	74 - 84

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	If in eyes, rinse slowly and gently with water for 15–20 minutes. If present, remove contact lenses. Call a poison control center or doctor for further treatment advice.
Skin Contact	Not applicable
Ingestion	Do not induce vomiting. Call a doctor or poison control center.
Inhalation	Move to fresh air. If breathing problems develop, call a doctor.

Most important symptoms and effects (acute and delayed)

Symptoms	Not expected to present a significant hazard under anticipated conditions of normal use
Inhalation	No known significant effects or critical hazards.
Eye Contact	May cause slight irritation
Skin Contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical, carbon dioxide (CO₂), foam, or water spray

Specific Hazards Arising from the Chemical

Alcohol flames may not be readily visible. Vapors are heavier than air and may travel to source of ignition and flash back.

Hazardous Combustion Products: Oxides of carbon

Protective equipment and precautions for firefighters

Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus(SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

NFPA Flammable and Combustible Liquids Classification: Flammable liquid Class IB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	See section 2 for "Precautionary Statement-Prevention". See section 8 for Personal Protection.
Environmental Precautions	Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Absorb or cover with dry earth, sand or other non-combustible material. Do not let chemical enter drains
--------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Use only with adequate ventilation. Avoid contact with eyes.
--------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a dry and well-ventilated place away from heat sources, ignition sources, and open flame. Do not store in open or unlabeled containers. Storage temperature 15-30°C (59-86°F)
Incompatible Materials	See section 10

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines**Ethyl Alcohol CAS# 64-17-5**

ACGIH TWA:	1000 ppm (TVL)
ACGIH STEL	1000 ppm (short-term exposure limit)
OSHA TWA	1900 mg/m ³ ; 1000 ppm (limits for air contaminants)

Appropriate engineering controls

Engineering Controls Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	None required for consumer use. If splashes are likely to occur, wear safety glasses.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	colorless
Odor	Alcohol-like
Odor Threshold	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5 - 7	
Melting Point/Freezing Point	-144.0 °C (-227.2 °F)	
Boiling Point/Boiling Range	78-80°C / 172.4-176°F	(at 760 mm Hg)
Flash Point	20°C / 68 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation Rate	< 1.0	(butyl acetate = 1)
Flammability (Solid, Gas)	Not determined	
Upper Explosion Limits	19%(V)	
Lower Explosion Limit	3.3%(V)	
Vapor Pressure	59.5 hPa @ 20°C	
Vapor Density	No data available	(Air=1)
Specific Gravity	~0.79	(1=Water)
Water Solubility	soluble	
Partition Coefficient	Not determined	n-octanol/water
Auto-ignition Temperature	363.0°C (685.4°F)	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Stable
<u>Chemical Stability</u>	Stable under recommended storage conditions.

<u>Possibility of Hazardous Reactions</u>	Vapors may form reactive mixture with air.
<u>Conditions to Avoid</u>	Keep away from heat, sparks, open flames, and hot surfaces.
<u>Incompatible Materials</u>	Alkali metals, Ammonia, Oxidizing agents, Peroxides.
<u>Hazardous Decomposition Products</u>	Hazardous decomposition products formed under fire conditions. - Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Component Information

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	Not classified
Reproductive toxicity	No data available.
Aspiration hazard	No data available
Specific target organ toxicity- Repeated Exposure	No data available

Numerical measures of toxicity Not determined

12. ECOLOGICAL INFORMATION

Component Information

Persistence/Degradability No information available

Bioaccumulation No information available

Mobility No information available

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT

UN number: 1170 Class: 3 Packing group: II
 Proper shipping name: Ethanol solutions
 Reportable Quantity (RQ):
 Poison Inhalation Hazard: No

IMDG

UN number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-D
 Proper shipping name: ETHANOL SOLUTION

IATA

UN number: 1170 Class: 3 Packing group: II
 Proper shipping name: Ethanol solution

15. REGULATORY INFORMATION

International Inventories- Notification Status

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
ethyl alcohol 64-17-5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

US State Right-To-Know Regulations ETHYL ALCOHOL CAS# 64-17-5

New Jersey	Massachusetts	Pennsylvania
X	x	x

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	3	0	-
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	3	0	-

Issue Date: March 27, 2020 – Creation date for SDS

Revision Date: April 3, 2020 - Updated formula

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet