

TEN-SAN Hand Sanitizer Gel 70%



Version 1

Date of last issue: 3/24/2020

MSDS Number: 738646686806

Date of first issue: 3/24/2020

SECTION 1. IDENTIFICATION

Product name: TEN-SAN Hand Sanitizer Gel 70%

Manufacturer or supplier's details

Company name of supplier: TEN-SAN

Address: 4295 Cromwell Rd. Suite 517
Chattanooga TN 37421

Telephone: 423-708-4698
Emergency Telephone: 423-821-6926 Clean Harbors

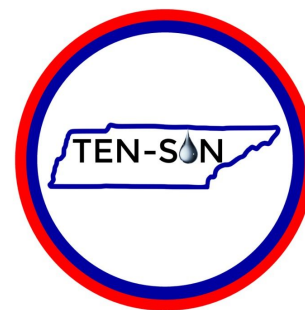
Recommended use of the chemical and restrictions on use

Recommended use: Hand Sanitizer

Restriction on use:

This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids: Category 3

Eye irritation: Category 2A

GHS Label element

Hazard pictograms



Signal Word: Warning

Hazard Statements: H226 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 the container tightly closed.
P241 Use explosion-proof electrical/ ventilating/ lighting/equipment
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

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Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentrations</u>
Ethanol	64-17-5	>=65 - < 75%
Water	7732-18-5	>=20 - < 30%
Carbopol Aqua SF-1 Polymer	25212-88-8	>=2.5% - < 7.5%
Glycerine	56-81-5	>=1 - < 2%
AMP-95	124-68-5	>= 0.1 - 0.3%

SECTION 4. FIRST AID MEASURES

General Advice: In the case of an accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

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In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

If swallowed: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms : Causes serious eye irritation
and effects, both acute
and delayed

Protection of first-aiders: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician: Treat symptomatically and supportively.

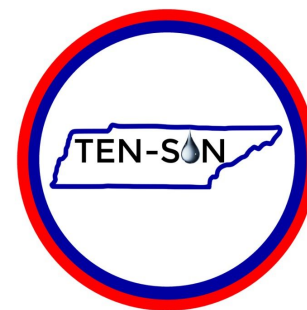
SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

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Hazardous combustion products: Carbon Oxides

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from the fire area if it is safe to do so. Evacuate area.

Special protective equipment: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment for fire-fighters.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up: Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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SECTION 7. HANDLING AND STORAGE

Technical measures:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation:	Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Advice on safe handling:	Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep the container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage:	Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid:	Do not store with the following product types: Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Gases

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<u>Ingredients</u>	<u>CAS No.</u>	<u>Value Type (form of exposure)</u>	<u>Control Parameters/Permissible Concentrations</u>	<u>Basis</u>
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Carbopol- Aqua SF-1 polymer	25212-88-8	TWA	Liquid form Unspecified No known irritants	ACGIH (TLV) NIOSH REL OSHA Z-1
		STEL	5 (mg/m3)	ACGIH
Glycerine	56-81-5	TWA	10 (mg/m3)	ACGIH (TLV)
		TWA	5 (mg/m3)	OSHA (PEL)

Engineering measures:

Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

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Personal protective equipment

Respiratory protection:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection Material:

Impervious gloves

Material:

Flame retardant gloves.

Remarks:

Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye Protection:

Wear the following personal protective equipment:
Safety goggles

Skin and body protection:

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene Measures:

Ensure that eye flushing systems and safety showers are located close to

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the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, Colorless to pale yellow
Odor	: none
Odor Threshold	: No Data Available
pH	: 6.5-8.5
Melting point/freezing point	: No Data Available
Initial boiling point and boiling range	: 70°C
Flash point	: 25°C
Evaporation rate	: No Data Available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No Data Available
Lower explosion limit	: No Data Available
Vapor pressure	: No Data Available
Relative vapor density	: No Data Available
Density	: 0.8750g/cm ³
Solubility(ies) Water solubility	: soluble
Partition coefficient:	: Not applicable

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n-octanol/water	
Autoignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	: 3,500 - 23,000 mm ² /s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical Stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames and sparks
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY	: Acute toxicity estimate: > 5,000 mg/kg
SKIN CORROSION/IRRITATION	: No skin irritation
SERIOUS EYE DAMAGE/IRRITATION	: Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITIZATION	: Not classified based on available information.
GERM CELL MUTAGENICITY	: Not classified based on available information.
CARCINOGENICITY	: Not known to be as defined by OSHA, IARC or NTP
REPRODUCTIVE TOXICITY	: Not classified based on available information.
SPECIFIC TARGET ORGAN TOXICITY -	: Not classified based on available information.
SINGLE EXPOSURE SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	: Not classified based on available information.
ASPIRATION HAZARD	: Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

This product is safe for the environment at the concentrations predicted under normal use conditions.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Dispose of as an unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

Water Disposal: Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

UN number: UN 1170
Proper shipping name: Ethanol, Glyc
erine
(Ethanol, Glycerine, Carbopol- Aqua SF-1 polymer, AMP-95)
Class: 3
Packing group: III
Labels: 3

IATA-DGR

UN/ID No.: UN 1170
Proper shipping name: Ethanol, Glycerine
(Ethanol, Glycerine, Carbopol- Aqua SF-1 polymer, AMP-95)
Class: 3
Packing group: III
Labels: Flammable Liquids
Packing instruction
(cargo aircraft): 366
Packing instruction
(passenger aircraft): 355

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IMDG-Code

UN number:

UN 1170

Proper shipping name:

Ethanol, Glycerine

(Ethanol, Glycerine, Carbopol- Aqua SF-1 polymer, AMP-95)

Class:

3

Packing group:

III

Labels:

3

EmS Code:

F-E, S-D

Marine pollutant:

no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number:

UN 1170

Proper shipping name:

Ethanol, Glycerine

Class:

3

Packing group:

III

Labels:

FLAMMABLE LIQUID

ERG Code:

127

Marine pollutant:

no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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SARA 311/312 Hazards: Fire Hazard
Acute Health Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: No chemicals in this material are subject to reporting levels established By SARA Title III, Section 313

US State Regulations

Pennsylvania Right To Know

Ethanol	64-17-5	60 - 80%
Glycerine	56-81-5	1 - 2 %
Carbopol- Aqua SF-1	25212-88-8	2.5 - 7.5 %
AMP-95	124-68-5	0.1 - 0.3%

New Jersey Right To Know

Ethanol	64-17-5	60 - 80%
Glycerine	56-81-5	1 - 2 %
Carbopol- Aqua SF-1	25212-88-8	2.5 - 7.5 %
AMP-95	124-68-5	0.1 - 0.3%

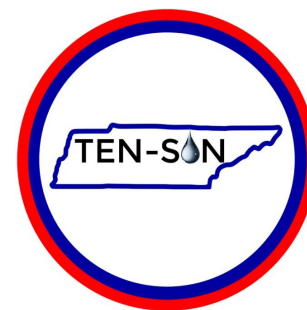
California Prop 65

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

The ingredients of this product are reported in the following inventories:

TSCA: All substances in this product are listed on the TSCA inventory if required.

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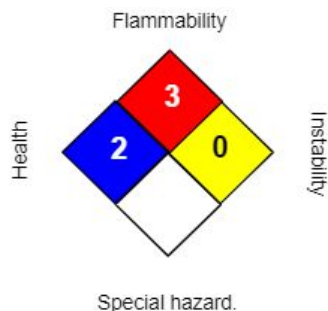
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SECTION 16. OTHER INFORMATION

Further information



NFPA:

HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

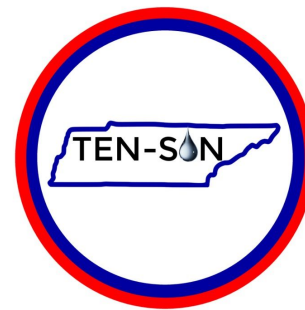
Full text of other abbreviations

- ACGIH: USA. ACGIH Threshold Limit Values (TLV)
- ACGIH BEI: ACGIH - Biological Exposure Indices (BEI)
- NIOSH REL: USA. NIOSH Recommended Exposure Limits
- OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA: 8-hour, time-weighted average
- ACGIH / STEL: Short-term exposure limit
- NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / STEL: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA Z-1 / TWA: 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet:

Internal technical data, data from raw material SDSs, OECD eChem

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Portal search results and European Chemicals Agency,
<http://echa.europa.eu/>

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8