

Safety Data Sheet

SNS-Hand Sanitizer

SECTION 1: PRODUCT AND COMPANY INFORMATION

Manufacturer Sierra Natural Science, Inc., 1031 Industrial St. Unit C, Salinas, CA 93901 - (831) 757-1702 - www.sierranaturalscience.com

Product Family Trade Name(s) Disinfectant
Anti-Microbial Hand Sanitizer

Recommended Uses This product is a high-quality Antimicrobial Hand Sanitizer that meets or exceeds the requirements of the USDA to be used as a E3 antimicrobial hand sanitizer.

24-Hour Emergency Phone Number, CHEMTREC - Tel: (800) 424-9300

SECTION 2: HAZARD IDENTIFICATION

Classification of the Substance or Mixture:

Eye Irritation - Category 2
Flammable Liquids - Category 3



Hazard Statements:

Causes serious eye irritation
Flammable liquid and vapor

Precautionary Statements:

Prevention

Wear eye protection if splash hazard exists. Keep away from heat, sparks, or open flames - No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response

In case of fire: Use water for extinction.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

IF EYE IRRITATION PERSISTS: Get medical advice or attention.

Storage and Disposal

Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local regulations.

Hazards not Otherwise Classified:

No other hazards classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Synonym	CAS Number	Percentage
Ethanol			
Glycerin Hydrogen Peroxide	Ethyl Alcohol	64-17-5	60-75%
	Glycerol	56-81-5	3-7%
	H2O2	7722-84-1	0.125-0.135%

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SECTION 4: FIRST AID MEASURES

Inhalation	Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POSION CENTER/doctor.
Skin Contact	This product is non-hazardous when in contact with skin.
Eye Contact	Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Most Important Symptoms and Effects, both Acute and Delayed: Contact with eye can cause irritation. Indication of any Immediate Medical Attention and Special Treatment Needed: Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

Use water spray, powder, foam, carbon dioxide.

Special hazards arising from the substance of mixture: Emits toxic fumes under fire conditions.

Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012): Flammable liquid - Category 3

Hazardous Combustion Products: Carbon oxides

Special protective equipment and precautions for firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Methods and materials for containment and cleaning up: SMALL SPILLS (less than 1 gallon): Neutralize with soda ash or cover with dry earth, sand or other non-combustible material, place into loosely covered plastic containers for later disposal. If neutralized, material can be diluted into drain. LARGE SPILL: Restrict access to area until completion of clean up. Prevent liquid from entering sewers or waterways. Stop or reduce leak if safe to do so. Dike with inert material (sand, earth, etc.). Collect into plastic containers for disposal. Ensure adequate decontamination of tools and equipment following clean up.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Wear safety glasses when handling this product.

Conditions for Safe Storage: Keep product in tightly closed container when not in use. Do not drop, roll, or skid drum. Store in a cool, dry, well-ventilated area away from heat or open flame.

Incompatible Materials: Acids, bases and strong oxidizers.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Identity	CAS Number	Type	Exposure Limit Values	Source
ETHANOL	64-17-5	PEL	1900 mg/m ³ (1000 ppm) 1000	OSHA
		STEL	ppm	NIOSH
		TWA	1900 mg/m ³ (1000 ppm)	ACGIH
HYDROGEN PEROXIDE	7722-84-1	PEL	N/A (CalOSHA)	OSHA
		STEL	1 ppm	NIOSH
		TWA	1 ppm	ACGIH

Ventilation and engineering measures: Forced air, local exhaust, or open air is adequate.

Respiratory Protection: In case of confined spaces or high levels encountered in the air, wear self-contained breathing apparatus.

Skin Protection: No additional skin protection needed.

Eye/Face Protection: Wear chemical goggles and/or wear a face shield if splashing hazard exists.

Other Protective Equipment: Eye wash facility and emergency shower should be in close proximity.

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Other Protective Equipment: Eye wash facility and emergency shower should be in close proximity.

General Hygiene Conditions: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Solubility in water: Complete

Auto ignition temperature: No information available. **Decomposition temperature:** No information available. **Viscosity:** 5-15 cSt at 20°C / 68°F

Volatile Organic Compounds (VOC): 60-70%

Vapor pressure: No information available

Odor threshold: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Shelf Life: 2 years from date of manufacture

Appearance: Colorless clear liquid.

Odor: Alcohol odor.

pH: 7-8

Melting/Freezing point: No information available. **Initial boiling point and boiling range:** 180°F

Flash Point: 27°C (81 °F)

Evaporation Rate (nBuAc = 1): < 1

Flammability (solid, gas): Flammable Liquids - Category 3

Lower flammable limit (% by vol.): 5%

Upper flammable limit (% by vol.): 16%

Specific gravity: 0.89 g/mL

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reactions: May react with incompatible materials

Conditions to Avoid: Incompatible materials and high temperatures

Incompatible Materials: Acids, bases and strong oxidizers.

Hazardous Decomposition Products: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry - inhalation: YES

Routes of entry - skin: NO

Routes of entry - eye: YES

Routes of entry - ingestion: YES

Routes of entry - skin absorption: NO

Potential Health Effects:

Signs and symptoms of short term (acute) exposure:

Inhalation: Product is irritating to the nose, throat and respiratory tract and may cause sore throat, coughing, shortness of breath and delayed pulmonary edema.

Ingestion: May cause nausea, vomiting, abdominal pain, gastrointestinal tract burns, gastrointestinal upset and/or diarrhea.

Skin: Not a skin irritant.

Eye: May cause redness, stinging, tearing, swelling, itching and/or irritation of the eye. Possible eye damage if left untreated.

Potential Chronic Health Effects:

Mutagenicity: Not known to have mutagenic effects in humans or animals.

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive effects: No information available.

Sensitization to material: May cause sensitization.

Specific target organ effects: No information available

Medical conditions aggravated by overexposure: No information available

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Toxicological data: The calculated ATE values for this mixture are:

ATE oral = >10000 mg/kg

ATE dermal = >10000 mg/kg

ATE inhalation = >20 mg/L

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to aquatic environment.

Persistence and degradability: Not expected to persist. Readily biodegradable. **Bioaccumulation potential:** Not expected to bioaccumulate.

Mobility in soil: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for disposal: Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.

Method of disposal: Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA: Not a listed RCRA hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying classifications

US 49 CFR/DOT/IATA/IMDG Information:

UN No.: 1993

UN Proper Shipping Name: Flammable liquid, n.o.s. (Ethanol)

Transportation hazard class(es): 3

Packing Group: III

Environmental hazards: Not a Marine Pollutant

SECTION 15: REGULATORY INFORMATION

US Federal Information:

TSCA information: All components are listed and active.

US CERCLA reportable quantity (RQ): Non Regulated Material.

SARA Title III: Acute Health Hazard, Fire Hazard

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 2	Stability 0 Physical	Special Hazards None
HMIS	Health Hazards 2	Flammability 2	Hazard 0	Personal Protection A

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0
Personal Protection = A (safety glasses)

Legend:

SARA: The Superfund Amendments and Reauthorization Act

RCRA: Resource Conservation and Recovery Act

TSCA: Toxic Substances Control Act

CFR: Code of Federal Regulations

DOT: Department of Transportation

ATE: Acute Toxicity Estimate