

**HAVILAND PRODUCTS COMPANY
SAFETY DATA SHEET**



Section 1: Identification

Product Name: Havaclean Hand Sanitizer-E Product Code:H006616

Haviland Products Company
421 Ann Street NW
Grand Rapids, MI 49504
(616) 361-6691

Powered by Plymouth Technology

Emergency Phone:

CHEMTREC: Canada and USA - (800) 424-9300
CHEMTREC: In Mexico - 01-800-681-9531

Product Use: Hand Sanitizer

Not recommended for: NA

Section 2: Hazard(s) Identification

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidance)

GHS Hazards

H225	Highly flammable liquid and vapour
H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure

GHS Precautions

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/light/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area

P280	Wear protective gloves/protective clothing/eye protection/face protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
P303+P361+P353	If on skin (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340	If inhales: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice / attention
P337+P313	If eye irritation persists get medical advice / attention
P370+P378	In case of fire: Use suitable media for extinction
P405	Store locked up
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

Danger



Section 3: Composition/Information on Ingredients

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethyl alcohol 64-17-5 70% - 80% Vapor Pressure: 42.979 mmHg	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Glycerin 56-81-5 1% - 5% Vapor Pressure: .002 mmHg	15 mg/m3 TWA (mist, total particulate); 5 mg/m3 TWA (mist, respirable fraction)		
Hydrogen peroxide 7722-84-1 0.1% - 1.0%	1 ppm TWA; 1.4 mg/m3 TWA	1 ppm TWA	NIOSH: 1 ppm TWA; 1.4 mg/m3 TWA

Section 4: First-aid Measures

Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-fighting Measures

Extinguishing Media

Water spray. Alcohol-resistant foam. BC powder. Carbon dioxide.

Do not use: Solid water jet ineffective as extinguishing medium.

Specific Hazards Arising from the Chemical

DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits.

INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapour spreads at floor level:

ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : **DIRECT EXPLOSION HAZARD.** Gas/vapour explosive with air within explosion limits.

INDIRECT EXPLOSION HAZARD. may be ignited by sparks. Reactions with explosion hazards:

see "Reactivity Hazard".

Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Spill and Leak Procedures

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

Clean up methods:

Take up liquid spill into a non combustible material e .g.: sand, earth, vermiculite or powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority . Wash clothing and equipment after handling.

Section 7: Handling and Storage

Handling Procedures

Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Use explosion-proof

electrical/ventilating/lighting/equipment.

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

Storage Requirements

Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep in fireproof place.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.

Storage area : Keep out of direct sunlight. Store in a dry area. Ventilation at floor level. Fireproof storeroom.

Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements.

Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: stainless steel. aluminium. iron. copper. nickel. synthetic material. glass.

Section 8: Exposure Control/Personal Protection
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Glycerin 56-81-5	15 mg/m3 TWA (mist, total particulate); 5 mg/m3 TWA (mist, respirable fraction)		
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ENGINEERING CONTROLS: Provide ventilation sufficient to maintain exposure below the recommended limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SKIN PROTECTION: Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties
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<p style="text-align: center;">Appearance: Clear Colorless Liquid</p> <p style="text-align: center;">Vapor Pressure: Not Available</p> <p style="text-align: center;">Vapor Density: 1.6</p> <p style="text-align: center;">Density: Not Available</p> <p style="text-align: center;">Freezing point: Not Available</p> <p style="text-align: center;">Boiling range: 70° C</p> <p style="text-align: center;">Evaporation rate (Ether=1): 8.3</p> <p style="text-align: center;">Explosive Limits: Not Available</p> <p style="text-align: center;">Autoignition temperature: Not Available</p>	<p style="text-align: center;">Odor: Alcohol</p> <p style="text-align: center;">Odor threshold: Not Available</p> <p style="text-align: center;">pH: 6.5 - 8.5</p> <p style="text-align: center;">Melting point: Not Available</p> <p style="text-align: center;">Solubility: Complete</p> <p style="text-align: center;">Flash point: 25° C</p> <p style="text-align: center;">Flammability: Not Available</p> <p style="text-align: center;">Specific Gravity 0.837</p> <p style="text-align: center;">Decomposition temperature: Not Available</p>
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Viscosity: Not Available

Grams VOC less water: Not Available

Section 10: Stability and Reactivity

Chemical Stability:

STABLE

Incompatible Materials

Strong acids. Strong bases.

Conditions to Avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

Hazardous Decomposition Products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

Hazardous Polymerization

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity

Inhalation Toxicity LC50: 150mg/L

Component Toxicity

7722-84-1 Hydrogen peroxide
Oral LD50: 801 mg/kg (Rat) Dermal LD50: 4,060 mg/kg (Rat) Inhalation LC50: 2 g/m3 (Rat)

Routes of Entry:

- Inhalation
- Ingestion
- Skin contact
- Eye contact

Target Organs

Blood	Eyes	Kidneys	Liver	Central Nervous System	Reproductive System	Skin
Respiratory System						

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
7722-84-1	Hydrogen peroxide	0.1% - 1.0%	Hydrogen peroxide:

Section 12: Ecological Information

Component Ecotoxicity

Ethyl alcohol	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
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Glycerin 96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]
Hydrogen peroxide 96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus:
18 - 56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0 - 32.0 mg/L [static]
48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]

Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14: Transportation Information

UN Code: 1993

Proper Shipping Name: Flammable liquid, N.O.S. (Ethanol)

Hazard Class: 3

Packing Group: III

Section 15: Regulatory Information

OSHA Process Safety Management Highly Hazardous Chemicals

7722-84-1 Hydrogen peroxide

TSCA 8(b) Inventory

7722-84-1 Hydrogen peroxide

56-81-5 Glycerin

64-17-5 Ethyl alcohol

Country

Regulation

All Components Listed

Section 16: Other Information

Date Prepared: 4/6/2020

Disclaimer

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.