

SAFETY DATA SHEET

Section 1: Identification

Product Name: Monin Hand Sanitizer

Chemical Name/Synonyms: NA

Company: Monin

2100 Range Road
Clearwater, FL 33765

In an emergency call 911.

Poison Control: 800-222-1222.

Section 2: Hazard(s) Identification

Emergency Overview

This material is an Over-The-Counter consumer product that is safe for consumers with intended and reasonable foreseeable use.

Hazard Classification: Flammable Liquid, Cat. 3

Signal Word(s): Warning

Hazard Statements: Flammable liquid and vapor



Pictograms:

Precautionary Statements:

- FLAMMABLE. Keep away from fire or flames
- Do not use in eyes. In case of eye contact, flush thoroughly with water and seek medical attention.
- Stop use and ask a doctor if irritation and redness develop and persists more than 72 hours.
- Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

Section 3: Composition/ Information on Ingredients

Ingredients considered hazardous as defined by OSHA, 29 CFR 1910.1200, WHMIS under the HPA (Canada), or ESIS (Europe).

Chemical Name	CAS#	%
Ethyl Alcohol	64-17-5	80-85
Water	7732-18-5	17-19
Glycerol	56-81-5	1-2
Hydrogen Peroxide	7722-84-1	0.1-0.15

Remaining ingredients are non-hazardous and/or present at amounts below reportable limits and considered confidential.

Section 4: First-Aid Measures

After skin contact: In case of irritation, immediately wash the affected area with soap and water. Seek medical attention in the event of an adverse reaction or if symptoms of irritation worsen.

After eye contact: Immediately flush the eye(s) with water for at least 15 minutes while holding eyelids open. Seek medical attention in the event of an adverse reaction or if symptoms of irritation worsen.

After inhalation: Product is not likely to be hazardous by inhalation. If respiratory irritation or distress

After swallowing: Seek medical attention if ingestion occurs.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Chemical foam, dry chemical, carbon dioxide, or water.

Unusual Fire & Explosions Hazards: Sensitive to static discharge.

Fire fighting Instructions: Use self-contained breathing apparatus and full protective gear if large quantities of product are involved. Thermal decomposition may include oxides of carbon and nitrogen.

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: Accidental Release Measures

Personal precautions: Wear appropriate protective equipment (See Section 8).

Measures for cleaning/collecting: Safely stop the source of the spill. Dike or contain the spill. Absorb with appropriate absorbent. Clean area of spill with absorbent material. Dispose of all washings, sweepings, and absorbents in accordance with all applicable federal, state, and local regulations. Spills may be reportable to the National Response Center (800-424-8802).

Section 7: Handling and Storage

Handling: Use personal protective equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection 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. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Section 8: Exposure Controls/Personal Protection

Control Parameters:

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1,000 ppm TWA: 1,900 mg/m ³ (vacated) TWA: 1,000 ppm	IDLH: 3300 ppm TWA: 1,000 ppm TWA: 1,900 mg/m ³

		(vacated) TWA: 1,900 mg/m ³	
Glycerol 56-81-5		TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1ppm (vacated) 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

Engineering Controls: Showers, eyewash stations, ventilation systems.

General protective and hygienic measures: Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Breathing equipment: Not required.

Protection of hands: Not required.

Eye protection: Safety glasses or goggles if splash hazards exist.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Form: Clear, fluid liquid

Odor: Slight Alcohol

Odor threshold: No data available

pH: 8.0

Melting point/melting range: No data available

Boiling point/boiling range: 78.3°C/172.9°F

Flashpoint: 17.5°C/63.5°F

Evaporation rate: No data available

Relative density: 0.810 – 0.870

Flammability (solid, gas): No data available

Flammability Limit in Air: No data available

Vapor pressure: No data available

Vapor density: No data available

Water Solubility: No data available

Solubility(ies): No data available

Partition coefficient: No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Kinematic viscosity: No data available

Dynamic viscosity: No data available

Other information

Explosive properties: No information available

Oxidizing properties: No information available

Softening point: No information available

Molecular weight: No information available

VOC Content (%): No information available

Liquid density: No information available

Bulk density: No information available

Section 10: Stability and Reactivity

Chemical stability: Stable under normal storage, handling, use, and transportation.

Conditions to avoid: Avoid extreme temperature conditions.

Incompatible materials: Strong acid and alkaline materials. Strong oxidizing and reducing agents.

Hazardous decomposition products: Oxides of carbon and nitrogen may be released under extreme heat.

Hazardous Polymerization: Will not occur.

Reactivity: None under normal use conditions.

Section 11: Toxicological Information

Acute toxicity:

Numerical measures of toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	=7060 mg/kg (Rat)	-	=124.7 mg/L (Rat) 4h
Water 7732-18-5	>90 mL/kg (Rat)	-	-
Glycerol 56-81-5	=12600 mg/kg (Rat)	>10 g/kg (Rabbit)	>570 mg/m ³ (Rat) 1h
Hydrogen peroxide 7722-84-1	=1518 mg/kg (Rat)	=9200 mg/kg (Rabbit)	=2000 mg/m ³ (Rat) 4h

Potential routes of exposure/potential health effects

Skin: Not expected to be irritating or sensitizing.

Eye: Contact may cause mild, transient irritation.

Inhalation: Irritating to the upper respiratory tract.

Ingestion: Oral toxicity is not anticipated, but may cause stomach distress, nausea, or vomiting.

Carcinogenic effects: Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Based on available data, the classification criteria are not met.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	x
Hydrogen peroxide 7722-84-1	A3	Group 3	-	-

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 – Animal Carcinogen

IARC (International Agency for the Research on Cancer)

Group 1 – Carcinogenic to Humans

Group 3 – Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known – Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) x - present

Chronic effects: Not expected to have chronic health effects.

Target Organs: Eyes, skin, respiratory system

Section 12: Ecological Information (non-mandatory)

Ecotoxicity:

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	LC50: 12.0 – 16.0ml/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 13400 – 15100mg/L (96h, <i>Pimephales promelas</i>) LC50:>100ml/L (96h, <i>Pimephales promelas</i>)	-	LC50: 9268 – 14221mg/L (48h, <i>Daphnia magna</i>) EC50: =2mg/L (48h, <i>Daphnia magna</i>)
Glycerol 56-81-5	-	LC50: 51 – 57ml/L(96h, <i>Oncorhynchus mykiss</i>)	-	-
Hydrogen peroxide 7722-84-1	-	LC50: 18 – 56ml/L (96h, <i>Lepomis macrochirus</i>) LC50: 16.4mg/L (96h, <i>Pimephales promelas</i>) LC50:10.0 – 32.0ml/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: 18-32mg/L (48h, <i>Daphnia magna</i>)

Persistence and degradability: No information available.

Bioaccumulation: There is no data for this product.

Component Information

Chemical Name	Partition coefficient
Ethanol 64-17-5	-0.32
Glycerol 56-81-5	-1.76

Environmental Impact: The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with conventional solid waste management practices.

Section 13: Disposal Considerations (non-mandatory)

Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

California Hazardous Waste Status: This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable
Hydrogen peroxide 7722-84-1	Toxic Corrosive Ignitable Reactive

Section 14: Transport Information (non-mandatory)

Note : This is a consumer product and as such may usually be shipped as ORM-D (other regulated materials for domestic transport only) Consumer Commodity for transport within the United States. While this product is a hazardous material, it may be shipped in a limited quantity that presents a limited hazard during transportation, due to its form, quantity, and packaging. The information listed below is for shipping bulk material.

DOT

- UN/ID no: UN1170
- Proper shipping name: ETHANOL SOLUTIONS
- Hazard Class: 3
- Packaging group II
- Special Provisions : 24, IB2, T4, TP1
- DOT Maritime Pollutant : NP
- Description : UN1170, ETHANOL SOLUTIONS, 3, II
- Emergency Response Guide Number : 127

IATA

- UN number: UN1170
- UN proper shipping name: Ethanol Solution
- Transport hazard class(es): 3
- Packaging group: II
- ERG Code: 3L
- Special Provisions: A180, A3, A58
- Description: UN1170, Ethanol solution, 3, II

IMDG

- UN number : UN1170
- UN proper shipping name : ETHANOL SOLUTION
- Transport hazard class(es): 3
- Packaging group: II
- EmS-No: F-E, S-D
- Marine pollutant: NP
- Special Provisions: 144
- Description: UN1170, ETHANOL SOLUTION, 3, II, (17.5°C C.C.)

Section 15: Regulatory Information

International Inventories

TSCA

Chemical Name	CAS No	US TSCA Inventory Listing	US TSCA Active/inactive designation
Ethanol	64-17-5	Present	Active
Water	7732-18-5	Present	Active
Glycerol	56-81-5	Present	Active
Hydrogen peroxide	7722-84-1	Present	Active

Legend: TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen peroxide 7722-84-1	-	1000 lb

US State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. This product contains the following Proposition 65 chemicals:

Chemical Name	California Proposition 65
Ethanol 64-17-5	Carcinogen Developmental

US State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	x	x

Glycerol 56-81-5	X	X	x
Hydrogen peroxide 7722-84-1	x	x	X

US EPA Label Information

EPA Pesticide Registration Number: Not applicable.

Section 16: Other Information

SDS date of preparation/update: 4/8/2020

This document is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information set forth herein has been compiled from sources considered to be dependable and is believed to be accurate as of the date of publication. This information is offered in good faith by Monin, and no warranty, expressed or implied, is made. The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.