

SAFETY DATA SHEET

According to SOR/2015-2017 (WHMIS 2015) and OSHA 29 CFR Parts 1910, 1915, 1926

Revision Date: 2026-05-25 | Version: 1.0

SECTION 1: Identification

Product Name	Hand Sanitizer (No.54) — ASSASSIN
Product Code	No.54
Recommended Use	Antiseptic hand sanitizer gel for institutional, commercial, and personal use
Restrictions on Use	For external use only. Keep away from fire and flame. Not for use on open wounds.

Manufacturer / Supplier

Company	ERE Inc.
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SECTION 2: Hazards Identification

GHS Classification

Hazard Class	Category
Flammable Liquids	Category 2
Serious Eye Damage / Eye Irritation	Category 2B
Skin Irritation	Category 2
Specific Target Organ Toxicity — Single Exposure (Respiratory Irritation)	Category 3

GHS Pictograms: GHS02 (Flame) GHS07 (Exclamation Mark)

Signal Word: WARNING

Hazard Statements

- H225 — Highly flammable liquid and vapor
- H319 — Causes serious eye irritation
- H335 — May cause respiratory irritation

Precautionary Statements

- P210 — Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

- P233 — Keep container tightly closed
- P241 — Use explosion-proof electrical/ventilating/lighting equipment
- P242 — Use non-sparking tools
- P243 — Take action to prevent static discharge
- P264 — Wash hands thoroughly after handling
- P280 — Wear protective gloves/eye protection/face protection
- 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.
- P310 — Immediately call a POISON CENTER or doctor
- P370+P378 — In case of fire: Use water spray, alcohol-resistant foam, dry chemical, or CO2 to extinguish
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P420 — Store separately

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
Ethanol (Ethyl Alcohol)	64-17-5	70
Denatonium Benzoate (bittering agent)	3734-33-6	< 0.1

Balance: Purified water, carbomer (gelling agent), glycerin, fragrance.

SECTION 4: First-Aid Measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If symptoms persist (dizziness, headache, respiratory irritation), seek medical attention. If not breathing, give artificial respiration.

Skin Contact

Rinse with plenty of water. Product is designed for brief skin contact. Prolonged or repeated use may cause dryness. If irritation develops, discontinue use and seek medical attention.

Eye Contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.

Ingestion

Rinse mouth with water. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Contains ethanol — ingestion may cause alcohol intoxication, nausea, vomiting, and central nervous system depression. Contains denatonium benzoate as a bittering agent to discourage ingestion.

Most Important Symptoms and Effects

Eye irritation, respiratory irritation from vapors in confined spaces, skin dryness with repeated use. Ingestion: alcohol intoxication, CNS depression, nausea, vomiting.

Indication of Immediate Medical Attention

Seek immediate medical attention for ingestion, especially by children. Show this SDS to the attending physician.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media

Alcohol-resistant foam, water spray, dry chemical, carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Do not use a solid (straight) water stream — may spread fire.

Specific Hazards Arising from the Chemical

FLAMMABLE. Highly flammable liquid and vapor (Flash Point $\geq 35^{\circ}\text{C}$). Vapors may travel to ignition source and flash back. Vapors may form explosive mixtures with air. Thermal decomposition produces carbon oxides (CO, CO₂).

Fire and Explosion Data

Flash Point	$\geq 35^{\circ}\text{C}$ (closed cup)
Auto-Ignition Temperature	370°C
Lower Explosive Limit (LEL)	3.3%
Upper Explosive Limit (UEL)	19%

Special Protective Equipment for Fire-Fighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray. Fight fire from a safe distance.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Eliminate all ignition sources (no smoking, no sparks, no open flames). Wear appropriate PPE including chemical splash goggles and gloves. Use non-sparking tools. Ensure adequate ventilation. Avoid breathing vapors.

Environmental Precautions

Prevent entry into drains, sewers, and waterways. Ethanol is readily biodegradable but may be harmful to aquatic organisms in concentrated form.

Methods and Materials for Containment and Cleaning Up

Contain spill. Absorb with non-combustible inert material (vermiculite, sand, earth). Place in appropriate closed containers for disposal. Ventilate area. Wash residual area with water. Dispose of in accordance with applicable regulations.

SECTION 7: Handling and Storage

Precautions for Safe Handling

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharge. Avoid breathing vapors. Use only with adequate ventilation. Wash hands after handling.

Conditions for Safe Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from ignition sources and incompatible materials. Store separately from oxidizing agents. Ground and bond containers during transfer.

Incompatible Materials

Strong oxidizers, strong acids, peroxides, alkali metals, acetyl chloride.

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits

Component	Type	Value	Source
Ethanol (64-17-5)	STEL	1,000 ppm	ACGIH TLV

Engineering Controls

Provide adequate ventilation to maintain airborne concentrations below exposure limits. Use explosion-proof ventilation equipment. Local exhaust ventilation recommended if used in confined spaces.

Personal Protective Equipment

- **Eye Protection:** Chemical splash goggles or safety glasses with side shields
- **Skin Protection:** Not normally required for intended use. Chemical-resistant gloves for prolonged industrial handling.
- **Respiratory Protection:** Not normally required with adequate ventilation. If ventilation is inadequate, use NIOSH-approved organic vapor respirator.
- **General Hygiene:** Avoid contact with eyes. Keep away from ignition sources during handling.

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Paste/gel, colorless
Odor	Citrus
pH	6.5 – 7.5
Melting Point	≤ -35°C
Boiling Point	≥ 75.6°C
Flash Point	≥ 35°C (closed cup)
Flammability	FLAMMABLE — Flammable Liquids Category 2
Auto-Ignition Temperature	370°C

Lower Explosive Limit (LEL)	3.3%
Relative Density	0.80 – 0.85
Viscosity	15,000 – 20,000 cps
Solubility in Water	Soluble
Vapor Pressure (ethanol, 20°C)	5.95 kPa
Evaporation Rate	> 1 (Butyl Acetate = 1)

SECTION 10: Stability and Reactivity

Reactivity

Flammable. Vapors may form explosive mixtures with air.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Vapors may form explosive mixtures with air. May react vigorously with strong oxidizers.

Conditions to Avoid

Heat, sparks, open flames, hot surfaces, static discharge, ignition sources.

Incompatible Materials

Strong oxidizers, strong acids, peroxides, alkali metals.

Hazardous Decomposition Products

Thermal decomposition produces carbon oxides (CO, CO₂) and water vapor.

SECTION 11: Toxicological Information

Likely Routes of Exposure

- **Inhalation:** Vapors may cause respiratory irritation, headache, dizziness, and CNS depression at high concentrations
- **Skin Contact:** May cause mild irritation and dryness with repeated exposure
- **Eye Contact:** Causes serious eye irritation
- **Ingestion:** Harmful. May cause alcohol intoxication, nausea, vomiting, CNS depression. Contains denatonium benzoate as a bittering agent.

Acute Toxicity

Component	Route	LD50 / LC50
Ethanol	Oral (rat)	7,060 mg/kg
Ethanol	Inhalation (rat, 10h)	20,000 ppm

Chronic Effects

Chronic inhalation of ethanol vapors may cause CNS effects. Chronic ingestion causes liver and organ damage (not expected via intended dermal use).

Carcinogenicity

Ethanol is classified by IARC as Group 1 carcinogen when consumed as an alcoholic beverage. This classification does not apply to topical antiseptic use.

SECTION 12: Ecological Information

Ecotoxicity

Ethanol: LC50 (fish, 96h) = 12,900 mg/L; EC50 (Daphnia, 48h) = 9,268 mg/L. Low toxicity to aquatic organisms.

Persistence and Degradability

Ethanol is readily biodegradable.

Bioaccumulative Potential

Not expected to bioaccumulate (log Kow = -0.31).

Mobility in Soil

Highly mobile. Miscible with water.

Other Adverse Effects

None known.

SECTION 13: Disposal Considerations

Waste Disposal Methods

Dispose of contents and container in accordance with all applicable local, provincial, and federal regulations. Do not pour down drains in quantity. Incineration is an acceptable disposal method. Contaminated packaging should be emptied completely and disposed of in the same manner.

Note: Product is flammable — do not store waste near ignition sources.

SECTION 14: Transport Information

This product is regulated for transport.

Regulation	UN Number	Proper Shipping Name	Class	Packing Group
TDG (Canada)	UN1170	Ethanol solution	3	II
DOT (USA)	UN1170	Ethanol solution	3	II
IMDG (Sea)	UN1170	Ethanol solution	3	II
IATA (Air)	UN1170	Ethanol solution	3	II

ERG Number: 127

Marine Pollutant: No

Special Provisions: Limited quantities and excepted quantities provisions may apply depending on package size. Consult applicable regulations.

SECTION 15: Regulatory Information

Canadian Regulations

- **WHMIS 2015:** Classified per Hazardous Products Regulations (SOR/2015-17) — Flammable Liquids Category 2, Eye Irritation 2B, Skin Irritation 2, STOT-SE 3
- **CEPA / DSL:** Ethanol is listed on the Canadian Domestic Substances List (DSL)
- **TDG:** Regulated — UN1170, Class 3, PG II

United States Regulations

- **OSHA:** Classified per 29 CFR 1910.1200 (HazCom 2012 / GHS)
- **TSCA:** Ethanol is listed on the TSCA Inventory
- **SARA 311/312:** Fire Hazard, Acute Health Hazard
- **SARA 313:** No listed chemicals above reporting thresholds
- **FDA:** Product meets FDA OTC Drug monograph requirements for antiseptic hand rubs (21 CFR 333)

International Regulations

Verify compliance with local regulations before use, transport, or distribution in other jurisdictions.

SECTION 16: Other Information

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Prepared By	ERE Inc. — Regulatory Affairs

Abbreviations

- GHS — Globally Harmonized System of Classification and Labelling of Chemicals
- STEL — Short-Term Exposure Limit
- ACGIH — American Conference of Governmental Industrial Hygienists
- TLV — Threshold Limit Value
- CNS — Central Nervous System
- ERG — Emergency Response Guidebook
- LEL / UEL — Lower / Upper Explosive Limit
- STOT-SE — Specific Target Organ Toxicity, Single Exposure

Disclaimer

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