

**SAFETY DATA SHEET****1. PRODUCT AND COMPANY INFORMATION****Product identifier****Product name:** Hand sanitizer**Other means of identification****Product code:** 124954, 125056**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended use:** Hand sanitizer**Uses advised against:** No information available**Details of the supplier of the safety data sheet****Manufacturer**Access Business Group, LLC
7575 Fulton Street East
Ada, MI 49355
USA
Tel: 1-800-253-6500**E-mail address:** sds@amway.com**Emergency telephone number****For Transportation** ChemTrec @ 1-800-424-9300
Emergencies:**Emergency Telephone Number:** 1-714-562-6200 (Access Business Group - Nutrilite Division)**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-------------------|------------|
| Flammable liquids | Category 2 |
|-------------------|------------|

Label elements

**DANGER****Hazard statements**

Highly flammable liquid and vapor

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/./? /equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Mixture

| Chemical Name | Common Name | CAS No | Weight-% | Trade secret |
|---------------|-------------|---------|----------|--------------|
| Ethanol | Alcohol | 64-17-5 | 60-70 | * |
| Glycerin | Glycerin | 56-81-5 | 1-5 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES**First aid measures****Eye contact:**

Remove contact lenses. Rinse with gentle stream of water for 15 minutes, holding eyelids

open. Get medical advice by calling a poison control center, doctor or hospital emergency room.

Skin contact: Rinse skin thoroughly with water.

Inhalation: Move to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

Ingestion: If victim is a child, give 4-8 ounces of water. For adults, give 8-12 ounces of water. Do not induce vomiting when this product is swallowed. If vomiting occurs spontaneously, keep victim in an upright position. GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

Protection of first-aiders: Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

No information available.

Specific hazards arising from the chemical

Extremely flammable. Avoid ignition sources.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Remove all sources of ignition. Wear appropriate personal protection equipment (respirator, gloves, goggles, and/or faceshield, boots, protective clothing).

For emergency responders:

Use personal protective equipment as required.

Environmental precautions

See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment:

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for cleaning up:

Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Dispose of in accordance with all national and local regulations.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on safe handling:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store at temperatures not exceeding 32 °C/ 90 °F. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible products:**Materials to avoid**

Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure limits:**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

| Chemical Name | ACGIH TWA | ACGIH STEL | ACGIH CEILING | ACGIH - Skin Absorption Designation |
|--------------------|-----------|------------|---------------|-------------------------------------|
| Ethanol 64-17-5 | | | 1000 ppm | |

| Chemical Name | OSHA TWA | OSHA-Table Z-3 Mineral Dust | OSHA CEILING | OSHA - Skin Notations |
|---------------------|---|-----------------------------|--------------|-----------------------|
| Ethanol 64-17-5 | 1000 ppm 1900 mg/m ³ | | | |
| Glycerin 56-81-5 | 15 mg/m ³ mist, total particulate 5 mg/m ³ mist, respirable fraction | | | |

| Chemical Name | Canada - Ontario - TWA | Canada - Ontario - STEL | Canada - Ontario - Ceiling Values | Canada - Ontario - Skin Notation |
|---------------|------------------------|-------------------------|-----------------------------------|----------------------------------|
| Ethanol | | 1000 ppm | | |

Appropriate engineering controls**Engineering measures:**

Mechanical ventilation is not normally necessary when this product is used according to product label directions.

Individual protection measures, such as personal protective equipment

| | |
|----------------------------------|---|
| Eye/face protection: | Follow label directions. No special technical protective measures are necessary. Avoid contact with eyes. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. |
| Hand protection: | Follow label directions. Skin protection is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. |
| Skin and body protection: | Follow label directions. Skin and body protection is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. |
| Respiratory protection: | Follow label directions. Respiratory protective equipment is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. |

General industrial hygiene practice:

This product is sold as a consumer product. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | | | |
|--------------------------------------|----------------------|--------------------------------|-----------------------------|
| Physical state: | Liquid | Odor: | Characteristic |
| Appearance: | Clear Gel | Odor threshold: | No information available |
| Color: | Colorless | | |
| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> | |
| pH: | 5.50 - 6.50 | | |
| Melting point/freezing point: | | | No information available |
| Boiling point/boiling range: | | | No information available |
| Flash point: | 22.8 °C / 73 °F | | Setaflash Closed Cup Tester |
| Evaporation rate: | | | No information available |
| Flammability (solid, gas): | | | No information available |
| Flammability limit in air: | | | |
| Upper flammability limit: | | | |
| Lower flammability limit: | | | |
| Vapor pressure: | | | No information available |
| Vapor density: | | | No information available |
| Specific gravity: | 0.850 - 0.910 | | |
| Water solubility: | | | No information available |
| Solubility(ies): | | | No information available |
| Partition coefficient | | | No information available |

| | |
|-----------------------------------|--------------------------|
| Autoignition temperature: | No information available |
| Decomposition temperature: | No information available |
| Kinematic viscosity: | No information available |
| Dynamic viscosity: | |
| 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 |
| Density: | No information available |
| Bulk density: | No information available |

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stability:

Stable under normal conditions.

Sensitivity to mechanical impact:

None.

Sensitivity to static discharge:

May be ignited by friction, heat, sparks or flames.

Possibility of hazardous reactions

Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

Conditions to avoid

Heat, flames and sparks. Keep out of reach of children.

Incompatible materials:

Not determined.

Hazardous decomposition products

Not determined.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Aggravated medical conditions: Exposure to this product may aggravate pre-existing skin, eye, and respiratory disorders.

Principle routes of exposure: Eye contact, skin contact, inhalation

Inhalation:

May cause irritation of respiratory tract. See additional information below.

Eye contact:

This product is not classified as an eye irritant. Contact with eyes may cause irritation.

Skin contact:

This product is not classified as a skin irritant.

Ingestion:

Ingestion of this product can cause irritation of the mouth and throat, upset stomach,

nausea, vomiting and diarrhea.

Further information: Inhalation overexposure to ethanol vapors can cause headache, nausea, dizziness and drowsiness. Studies in laboratory animals involving prolonged and repeated inhalation exposures to ethanol resulted in liver damage. Prolonged and repeated oral dosing of laboratory animals has caused mutagenic and developmental toxicity. The International Agency for Research on Cancer (IARC) has reported ethanol to be carcinogenic (based on chronic ingestion of alcoholic beverages).

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------|-----------------------|----------------------|-------------------------------------|
| Ethanol 64-17-5 | = 7060 mg/kg (Rat) | - | = 124.7 mg/L (Rat) 4 h |
| Glycerin 56-81-5 | = 12600 mg/kg (Rat) | > 10 g/kg (Rabbit) | > 570 mg/m ³ (Rat) 1 h |

Information on toxicological effects

Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation This product is not classified as a skin irritant.
Serious eye damage/eye irritation This product is not classified as an eye irritant. May cause eye irritation.
Sensitization: No information available.
Germ cell mutagenicity: None known.
Carcinogenicity: Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage

| Chemical Name | ACGIH | IARC (International Agency for Research on Cancer) | NTP | OSHA |
|--------------------|---|--|-------|------|
| Ethanol 64-17-5 | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans | Group 1 | Known | X |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program) Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Reproductive toxicity: Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.
STOT - single exposure: None known.
STOT - repeated exposure: None known.
Aspiration hazard: No hazard from product as supplied.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life.

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---------------|----------------------|--------------------------------|----------------------------|
| Ethanol | - | 12.0 - 16.0: 96 h Oncorhynchus | 9268 - 14221: 48 h Daphnia |

| | | | |
|---------------------|---|--|---|
| 64-17-5 | | mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static | magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static |
| Glycerin 56-81-5 | - | 51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static | 500: 24 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

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

Mobility in soil

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

| | |
|--------------------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging: | Dispose of in accordance with federal, state and local regulations. |
| US EPA Waste Number | D001 |

14. TRANSPORT INFORMATION

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptions.

DOT:

UN/ID No.: UN1170

Proper shipping name: Ethanol Solutions

Hazard class: 3

Packing group: III

IMDG/ADR:

UN/ID No.: UN1170

Proper shipping name: Ethanol Solution (Ethyl Alcohol Solution)

Hazard class: 3

Packing group: III

Marine pollutant: Not applicable

ICAO/IATA:

UN/ID No.: UN1170

Proper shipping name: Ethanol Solution

Hazard class: 3

Packing group: III

Marine pollutant: Not applicable

The information contained in this document is subject to change or update due to changing government regulations. The user of this document assumes responsibility for complying with all applicable national and international laws and regulations regarding the shipment of Dangerous Goods

15. REGULATORY INFORMATION

EPA RCRA Hazardous Waste Classification: D001

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (Time-Weighted Average)

STEL - STEL (Short Term Exposure Limit)

ACGIH (American Conference of Governmental Industrial Hygienists)

EPA (Environmental Protection Agency)

RCRA (Resource Conservation and Recovery Act)

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Prepared by: Access Business Group LLC, Environmental, Health and Safety Department, Ada, Michigan, U.S.A.

This data sheet contains changes from the previous version in section(s): 1, 12, 14

*****END OF SAFETY DATA SHEET*****