



# SAFETY DATA SHEET

## 1. IDENTIFICATION

### Product identifier

Product Name Helix Hand Sanitizer Gel

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Hand Sanitizer

Uses advised against No information available

### **Manufacturer:**

Helix Industries  
406 Raritan Avenue  
Unit 4547  
Highland Park, NJ  
08904 -USA

### Emergency telephone number

Emergency Phone Numbers 732 826-7000

This is a personal care or cosmetic product that is safe for users under normal and reasonably foreseeable use. While this material is not considered hazardous, the SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

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## 2. HAZARDS IDENTIFICATION

### Classification

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

|                   |             |
|-------------------|-------------|
| Flammable liquids | Category 2  |
| Eye Irritation    | Category 2A |

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### Signal word

Warning

### Hazard statements

Highly flammable liquid and vapor

Appearance Clear, colorless

Physical State Thin liquid

Odor Alcohol

### 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.

### Precautionary Statements - Response

In case of fire: Use dry chemical, carbon dioxide (CO<sub>2</sub>), foam, or water spray to extinguish.

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

### Precautionary Statements - Disposal

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

### Hazards not otherwise classified (HNOC)

Inhalation of high concentrations of vapor or mist may cause irritation of the respiratory tract, headaches, dizziness, nausea, vomiting, and malaise. Ingestion may cause central nervous system depression, gastrointestinal irritation, nausea, vomiting, and diarrhea.

### Other information

May cause slight eye irritation.

### Interactions with Other Chemicals

Can react with strong oxidizers, inorganic acids, and halogens.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name     | CAS No. | Weight % | Trade Secret |
|-------------------|---------|----------|--------------|
| Ethanol           | 64-17-5 | 66 - 76  | *            |
| Isopropyl alcohol | 67-63-0 | 5 - 10   | *            |

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

### 4. FIRST AID MEASURES

#### First aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General Advice</b>             | Show this safety data sheet to the doctor in attendance.   |
| <b>Eye Contact</b>                | Hold eye open and rinse slowly and gently with water for 15–20 minutes. If present, remove contact lenses, then continue rinsing eye. Call a poison control center or doctor for further treatment advice. |
| <b>Skin Contact</b>               | Not applicable.  |
| <b>Inhalation</b>                 | Move to fresh air. If breathing problems develop, call a doctor.   |
| <b>Ingestion</b>                  | Drink a glassful of water. Call a doctor or poison control center.   |
| <b>Protection of First-aiders</b> | Remove all ignition sources. Use personal protective equipment as required. Wear personal protective clothing (see section 8).   |

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and Effects** May cause slight eye irritation.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, or water spray.

#### Unsuitable Extinguishing Media

Use of water spray when fighting fire may be inefficient.

#### Specific Hazards Arising from the Chemical

Alcohol flames may not be readily visible. Vapors are heavier than air and may travel to source of ignition and flash back. Vapors may form explosive mixtures with air.

#### Hazardous Combustion Products

Oxides of carbon.

#### Explosion Data

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** Yes.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Take precautionary measures against static discharges.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental Precautions** Prevent entry into surface water or sanitary sewers. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Eliminate all potential sources of ignition, and ventilate area. Absorb and containerize. Do not flush into surface water or sanitary sewer system.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice.  
Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Store in accordance all applicable regulations and fire codes. Keep containers tightly closed in a cool, well-ventilated place away from heat, sparks, open flames, and hot surfaces.

**Incompatible Products** Strong oxidizers, inorganic acids, and halogens.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name      | ACGIH TLV      | OSHA PEL                                     | NIOSH IDLH   |
|--------------------|----------------|--|--|
| Ethanol<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | IDLH: 3300 ppm 10% LEL<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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**Individual protection measures, such as personal protective equipment**

|                                 |   |
|---------------------------------|---|
| <b>Eye/Face Protection</b>      | None required for consumer use. If splashes are likely to occur, wear safety glasses.   |
| <b>Skin and Body Protection</b> | No special protective equipment required.   |
| <b>Respiratory Protection</b>   | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.  |

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Physical and Chemical Properties**

|                       |             |                       |                          |
|-----------------------|-------------|-----------------------|--------------------------|
| <b>Physical State</b> | Thin liquid | <b>Odor</b>           | Alcohol                  |
| <b>Appearance</b>     | Clear       | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | colorless   |                       |                          |

| <b><u>Property</u></b>        | <b><u>Values</u></b> | <b><u>Remarks/ Method</u></b> |
|-------------------------------|----------------------|-------------------------------|
| pH                            | 5 - 7                | None known                    |
| Melting/freezing point        | No data available    | None known                    |
| Boiling point / boiling range | No data available    | None known                    |
| Flash Point                   | ~21°C (closed cup)   | None known                    |
| Evaporation rate              | No data available    | None known                    |
| Flammability (solid, gas)     | No data available    | None known                    |
| Flammability Limits in Air    |                      |                               |
| Upper flammability limit      | No data available    | None known                    |
| Lower flammability limit      | No data available    | None known                    |
| Vapor pressure                | No data available    | None known                    |
| Vapor density                 | No data available    | None known                    |
| Specific Gravity              | ~0.84                | None known                    |
| Water Solubility              | Complete             | None known                    |
| Solubility in other solvents  | No data available    | None known                    |
| Partition coefficient         | No data available    | None known                    |
| Autoignition temperature      | No data available    | None known                    |
| Decomposition temperature     | No data available    | None known                    |
| Kinematic viscosity           | No data available    | None known                    |
| Dynamic viscosity             | No data available    | None known                    |
| Explosive Properties          | Not explosive        |                               |
| Oxidizing Properties          | No data available    |                               |

**Other Information**

|                            |                   |
|----------------------------|-------------------|
| Softening Point            | No data available |
| VOC Content (%)            | No data available |
| Particle Size              | No data available |
| Particle Size Distribution | No data available |

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## 10. STABILITY AND REACTIVITY

### Reactivity

Can react with strong oxidizers, inorganic acids, and halogens.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None known.

### Conditions to avoid

Keep away from heat, sparks, open flames, and hot surfaces.

### Incompatible materials

Strong oxidizers, inorganic acids, and halogens.

### Hazardous Decomposition Products

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Inhalation of high concentrations of vapor or mist may cause irritation of the respiratory tract, headaches, dizziness, nausea, vomiting, and malaise. |
| <b>Eye Contact</b>  | May cause slight irritation.   |
| <b>Skin Contact</b> | Prolonged or repeated use may cause dryness and/or slight irritation.  |
| <b>Ingestion</b>    | Ingestion may cause central nervous system depression, gastrointestinal irritation, nausea, vomiting, and diarrhea.                                    |

#### Component Information

| Chemical Name                | Oral LD50      | Dermal LD50        | Inhalation LC50     |
|------------------------------|----------------|--------------------|---------------------|
| Ethanol<br>64-17-5           | -              | -                  | 125 mg/L (Rat, 4 h) |
| Isopropyl alcohol<br>67-63-0 | 4.4 g/kg (Rat) | 12.9 g/kg (Rabbit) | 16000 (Rat, 8 h)    |

### Information on toxicological effects

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | May cause slight redness and tearing of eyes. |
|-----------------|---|

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

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

| Chemical Name                | ACGIH | IARC    | NTP   | OSHA |
|------------------------------|-------|---------|-------|------|
| Ethanol<br>64-17-5           | A3    | Group 1 | Known | X    |
| Isopropyl alcohol<br>67-63-0 | -     | Group 3 | -     | X    |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for 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*

**Reproductive Toxicity** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.

**STOT - single exposure** No information available.

**Aspiration Hazard** Not an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical Name                | Toxicity to Algae  | Toxicity to Fish  | Toxicity to Microorganisms                          | Daphnia Magna (Water Flea)   |
|------------------------------|--|---|---|--|
| Ethanol<br>64-17-5           |  | LC50: 12.0 - 16.0 mL/L (96 h static) <i>Oncorhynchus mykiss</i><br>LC50: 13400 - 15100 mg/L (96 h flow-through) <i>Pimephales promelas</i><br>LC50: > 100 mg/L (96 h static) <i>Pimephales promelas</i> | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min | LC50: 9268 - 14221 mg/L (48 h) <i>Daphnia magna</i><br>EC50: 10800 mg/L (24 h) <i>Daphnia magna</i><br>EC50: 2 mg/L (48 h Static) <i>Daphnia magna</i> |
| Isopropyl alcohol<br>67-63-0 | 96h EC50: > 1000 mg/L ( <i>Desmodesmus subspicatus</i> )<br>72h EC50: > 1000 mg/L ( <i>Desmodesmus subspicatus</i> ) | 96h LC50: = 9640 mg/L ( <i>Pimephales promelas</i> ) 96h<br>LC50: = 11130 mg/L ( <i>Pimephales promelas</i> ) 96h<br>LC50: > 1400000 µg/L ( <i>Lepomis macrochirus</i> )                                |   | 48h EC50: 13299 mg/L   |
| Glycerin<br>56-81-5          |  | LC50: 51 - 57 mL/L (96 h static) <i>Oncorhynchus mykiss</i>   |   | EC50: > 500 mg/L (24 h) <i>Daphnia magna</i>   |

### Persistence and Degradability

No information available.

### Bioaccumulation

| Chemical Name                | Log Pow |
|------------------------------|---------|
| Ethanol<br>64-17-5           | -0.32   |
| Isopropyl alcohol<br>67-63-0 | 0.05    |

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

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

### Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.



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## 14. TRANSPORT INFORMATION

### DOT

UN/ID/NA number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S., (Ethanol, Isopropanol)

Class : 3

Packing group : II

Labels : FLAMMABLE LIQUID

ERG Code : 127

Marine pollutant : no

## 15. REGULATORY INFORMATION

### Chemical Inventories

#### TSCA

All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

#### DSL/NDSL

All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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**U.S. 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**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

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

| Chemical Name      | California Proposition 65 |
|--------------------|---------------------------|
| Ethanol<br>64-17-5 | Developmental             |

**U.S. State Right-to-Know Regulations**

| Chemical Name                | New Jersey | Massachusetts | Pennsylvania | Rhode Island |
|------------------------------|------------|---------------|--------------|--------------|
| Ethanol<br>64-17-5           |            | X             |              |              |
| Isopropyl alcohol<br>67-63-0 | X          | X             | X            | X            |
| Glycerin<br>56-81-5          | X          | X             | X            | X            |

## 16. OTHER INFORMATION

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|                           |                      |                |                   |                                 |
|---------------------------|----------------------|----------------|-------------------|---------------------------------|
| <b>NEPA</b>               | Health Hazard 2      | Flammability 3 | Instability 0     | Physical and Chemical Hazards - |
| <b>HMS</b>                | Health Hazard 2      | Flammability 3 | Physical Hazard 0 | Personal Protection -           |
| Prepared By               | Technical Department |                |                   |                                 |
| Preparation/Revision Date | January 2020         |                |                   |                                 |
| Version                   | 3                    |                |                   |                                 |

### General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet