### Safety Data Sheet

#### Section 1: Identification

<table>
<thead>
<tr>
<th><strong>GHS Product Identifier</strong></th>
<th>Level 1 Hand Sanitizer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>LEVEL 1 Hand Sanitizer GEL</td>
</tr>
<tr>
<td><strong>Product Type</strong></td>
<td>Finished Product- Consumer (Retail) Use Only</td>
</tr>
<tr>
<td><strong>Product Code</strong></td>
<td>Finished Product</td>
</tr>
</tbody>
</table>

#### Details of the supplier of the safety data sheet

Manufacturer CMC: Continental Manufacturing Chemist, Inc.  
1501 Blue Sky Blvd  
Huxley, Iowa 50124  
[www.cmchemist.com](http://www.cmchemist.com)  
1-515-795-2000 Contact: Bruce A. Gartin

#### Emergency telephone number

Chemtrec  
1-800-424-9300

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

**Recommended use**  
Hand Sanitizer GEL

**Restrictions on use**  
This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this 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.
Section 2: Hazard Identification

GHS Classification

Flammable liquids Category 3
Eye Irritation Category 2A

GHS label elements

Hazard pictograms

Signal Word: Warning

Precautionary Statements:

**Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

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.
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:** P501 Dispose of contents/container to an approved waste disposal plant.

**Other Hazards**

This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use.

None known

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers – CAS #</th>
<th>%(weight)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI Water</td>
<td>CAS NO 7732-18-5</td>
<td>29.025</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>CAS NO 56-81-5</td>
<td>3.0%</td>
<td></td>
</tr>
<tr>
<td>Carbomer</td>
<td>Mixture</td>
<td>0.1900%</td>
<td></td>
</tr>
<tr>
<td>sda 40b 190</td>
<td>CAS NO 64-17-5</td>
<td>67.3%</td>
<td>Mixture</td>
</tr>
<tr>
<td>Isopropyl Myristate</td>
<td>CAS NO 110-27-0</td>
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<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>CAS NO 102-71-6</td>
<td>0.1600%</td>
<td></td>
</tr>
</tbody>
</table>

**Section 4: First-Aid Measures**

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical Health Hazard

**If inhaled:** If inhaled remove to fresh air. Get medical attention if symptoms occur

**In case of skin contact:** Wash with water and soap as a precaution. Get medical attention if symptoms occur.
## Section 5: Fire-Fighting Measures

**Suitable extinguishing media:**
- Water spray
- Alcohol-resistant foam
- Dry chemical
- Carbon dioxide (CO2) water jet

**Unsuitable extinguishing media:**
- High Volume water jet

**Specific hazards during firefighting:**
- Do not use a solid water stream as it may scatter and spread fire.
- Flash back possible over considerable distance.
- Vapors may form explosive mixtures with air

**Hazardous combustion products:**
- Carbon oxides
- Silicon oxides

**Specific extinguishing methods:**
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Use water spray to cool unopened containers.
- Remove undamaged containers from fire area if it is safe to do so.
- Evacuate area.

**Special protective equipment for fire-fighters:**
- In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

## Section 6: Accidental Release Measures

**Personal precautions:**
- Remove all sources of ignition

**Protective equipment and emergency procedures:**
- Use personal protective equipment.
- Follow safe handling advice and PPE recommendations.

**Environmental precautions:**
- Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods, materials for containment, cleaning up:

Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and Storage

Technical measures: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation: Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling: Do not breathe vapors or spray mist.
Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety practice.

Non-sparking tools should be used. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the environment.

**Conditions for safe storage:**

Keep in properly labeled containers. Keep tightly closed.

Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

**Materials to avoid**

Do not store with the following product types:

- Strong oxidizing agents
- Organic peroxides
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures which in contact with water emit flammable gases
- Explosives
- Gases
Section 8: Exposure Controls/Personal Protection

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Cas No</th>
<th>Value Type</th>
<th>Control parameters/ Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,900mg/m3</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>

Engineering measures

Minimize workplace exposure concentrations
Use only in an area equipped with explosionproof exhaust ventilation
Use with local exhaust

Personal protective equipment

Respiratory protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material: Impervious gloves
Material: Flame retardant gloves
Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications,
we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment: Safety goggles

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-us

Section 9: Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description

<table>
<thead>
<tr>
<th>Physical Form</th>
<th>Gel/Liquid</th>
<th>Appearance/Description</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear</td>
<td>Odor</td>
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<tr>
<td>Taste</td>
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<td>Particulate Type</td>
</tr>
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<td>Particulate Size</td>
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<td>Aerosol Type</td>
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<td>Odor Threshold</td>
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<td>Physical and Chemical Properties</td>
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<td>General Properties</td>
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<tr>
<td>Boiling Point</td>
<td>Data Not Available</td>
<td>Melting Point</td>
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<td>Decomposition</td>
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<td>Heat of Decomposition</td>
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<tr>
<td>Temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>Range 7.0 - 7.5</td>
<td>Specific Gravity/Relative Density</td>
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<tr>
<td></td>
<td></td>
<td>0.89 g/ml</td>
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<tr>
<td>Density</td>
<td>Data Not Available</td>
<td>Bulk Density</td>
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<tr>
<td>Water Solubility</td>
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<td>Solvent Solubility</td>
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<tr>
<td>Property</td>
<td>Value</td>
<td>Explosive Properties</td>
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<tr>
<td>-----------------------------------------------</td>
<td>--------------------------------</td>
<td>----------------------</td>
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<tr>
<td>Viscosity</td>
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<td>Volatility</td>
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<td>Vapor Pressure</td>
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<td>Evaporation Rate</td>
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<td>Vapor Density</td>
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<td>Volatiles (Vol.)</td>
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<td>Flammability</td>
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<td>Flash Point</td>
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<td>Auto ignition</td>
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<td>Self-Accelerating Decomposition Temperature (SADT)</td>
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<td>Burning Time</td>
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<td>Flame Height</td>
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<td>Flame Extension</td>
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<td>Ignition Distance</td>
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<td>Flammability (solid, gas)</td>
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<td>Environment</td>
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<td>Octanol/Water Partition coefficient</td>
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<td>Half-Life</td>
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<td>Bioaccumulation Factor</td>
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<td>Coefficient of water/oil distribution</td>
<td>Data Not Available</td>
<td>Biochemical Oxygen Demand BOD/BOD5</td>
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<td>Bioconcentration Factor</td>
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<td>Persistence</td>
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<tr>
<td>Chemical Oxygen Demand</td>
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</tr>
<tr>
<td>Degradation</td>
<td>Data Not Available</td>
<td></td>
</tr>
</tbody>
</table>
### Section 10: Stability and Reactivity

| Reactivity: | Not classified as a reactivity hazard. Stable under normal conditions |
| Chemical stability: | Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. |
| Possibility of hazardous reactions: | Heat, flames and sparks. Oxidizing agents |
| Hazardous decomposition products | No hazardous decomposition products are known. |

#### Conditions to avoid

<table>
<thead>
<tr>
<th>Incompatible materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified based on available information</td>
</tr>
</tbody>
</table>

#### Incompatible materials

<table>
<thead>
<tr>
<th>Incompatible materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified based on available information</td>
</tr>
</tbody>
</table>

### Section 11. Toxicological Information

#### Information on likely routes

- **Inhalation**
- **Skin Contact**
- **Ingestion**
- **Eye Contact**

#### Acute Toxicity

Not classified based on available information

#### Product

- **Acute oral toxicity**
  - Acute toxicity estimate: > 5,000 mg/kg
  - Method: Calculation menthol

#### Ingredients:

- **Ethanol**
  - **Acute oral toxicity**: LD50 (Rat): > 5,000 mg/kg
  - **Acute inhalation toxicity**: LC50 (Rat): 124.7 mg/l
    - Exposure time: 4 h
    - Test atmosphere: vapor

#### Skin corrosion/irritation

Not classified based on available information.
**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Ingredients:**

Species: Rabbit
Result: Irritation to eyes reversed 21 days
Method: OECD Test Guideline 405

**Respiratory or skin sensitization**
Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

**Product:**
Product does not cause skin sensitization

**Ingredients:**

Ethanol:
Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse Result: negative

**Germ cell mutagenicity**
Not classified based on available information

**Ingredients:**

Ethanol:
Genotoxicity in vitro Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative

**Carcinogenicity**
Not classified based on available information

**Reproductive toxicity**
Not classified based on available information
**Ingredients:**
Ethanol

**Effects on fertility**

Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Ingestion Method: OECD Test Guideline 416
Result: negative
STOT-single exposure Not classified based on available information

**Repeated dose toxicity**

Ethanol
Species:
Rat NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

**Aspiration toxicity**

Not classified based on available information.

### SECTION 12. Ecological Information

**Ingredients:**
Ethanol:

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae

EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 9.6 mg/l, Exposure time: 9 d

**Persistence and degradability**

Ethanol:

Biodegradability: Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

---

**SECTION 13. Disposal Considerations**

Disposal methods:
Waste from residues: Dispose of in accordance with local regulations.
Contaminated packaging: Dispose of as unused product.

**SECTION 14 Transportation Information**

**Domestic regulation** 49 CFR
PHMSA Covid -19 Guidelines
UN/ID/NA number: UN 1987
Proper shipping name: Ethanol or Ethyl Alcohol or Ethanol Solutions or Ethyl Alcohol Solutions
Class: 3
Packing group: II
Freight Class: 85
NMFC – 44500-3
Label: 3
FLAMMABLE LIQUID
ERG Code: 127
Marine Pollutant  No  
International Regulation

**UNRTDG**

UN number: UN 1170

Proper shipping name: Ethanol or Ethyl Alcohol or Ethanol Solutions or Ethyl Alcohol Solutions

Class: 3

Packing group: II

Label: 3

**IATA-DGR**

UN/ID No.: UN 1170

Proper shipping name: Ethanol or Ethyl Alcohol or Ethanol Solutions or Ethyl Alcohol Solutions

Class: 3

Packing group: III

Label: 3

Flammable Liquids

Packing instruction (cargo aircraft): 366

Packing instruction (passenger aircraft): 355

**IMDG-Code**

UN number: UN 1170

Proper shipping name: Ethanol or Ethyl Alcohol or Ethanol Solutions or Ethyl Alcohol Solutions

Class: 3

Packing group: II

Label: 3

Ems Code: F-E, S-D
SECTION 15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
Fire Hazard
Acute Health Hazard

SARA 302:
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
The following components are subject to reporting levels established by SARA Title III, Section 313:

US State Regulations

Pennsylvania Right to Know
Ethanol 75-79% 64-17-5

New Jersey Right to Know
Ethanol 75-79% 64-17-5

California Prop 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Inventories
The ingredients of this product are reported in the following inventories:

AICS: All ingredients listed or exempt
Disclaimer/Statement of Liability
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be direct to the manufacturer of the product as described in Section 1.
Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA : 8-hour time weighted average