Safety Data Sheet

Conforms to OSHA 29 CFR 1910.1200 and aligns to the United Nations Globally Harmonized System

Date of Revision: None
Revision: 0

Section 1 - Chemical Product and Company Identification

Product Name: Hand D Hand Sanitizer
1.2 Synonym: Blend
1.3 B3C Fuel Solutions LLC, 108 Daytona Street, Conway, SC 29526, 843-347-0482
1.4 Recommended Use: Hand Sanitizer

1.5 RESTRICTIONS on USE This product is safe for consumers and other users under normal and reasonably foreseeable use.

1.6 Emergency Response Number: INFOTRAC 800-535-5053
International Emergency Telephone Number: +1-352-323-3500

Section 2 - Hazards Identification

2.1 GHS HAZARD

Flammable liquid/vapor
Specific Target Organs single exposure
Eye Irritation
Skin Irritation

Hazard Categories
Category 3
Category 3
Category 2A
Category 2

2.2 Signal Word: Warning

2.3 Pictograms:

2.4 Hazard Statements

PHYSICAL HAZARDS:
H226: Flammable liquid and vapor.

HEALTH HAZARDS:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
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ENVIRONMENTAL HAZARDS: None

PRECAUTIONARY STATEMENTS:
- P102: Keep out of reach of children.
- P210: Keep away from sparks and open flames - No smoking.
- P240: Ground or bond container and receiving equipment.
- P241: Use explosion-proof equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P261: Avoid breathing mist or vapors.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use outdoors or in a well-ventilated area.
- P280: Wear protective gloves, clothing, and eye protection.

RESPONSE STATEMENTS:
- P303+P361+P353: IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water.
- P304: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351: IF IN EYES. Rinse cautiously with water for at least 15 minutes.
- P312: Call the National POISON CENTER at 800-222-1222 if you feel unwell.
- P313+P332+P337: If skin or eye irritation persists, get medical attention.
- P370: In case of fire, use foam, carbon dioxide, dry chemical to extinguish the fire.

STORAGE STATEMENTS:
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.

DISPOSAL STATEMENTS:
- P501: Dispose of content and container per local, regional, national, or international regulations.

2.5 Hazards not otherwise classified (HNOC) or not covered by GHS: Repeated exposure may cause skin dryness or cracking.
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Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>EC#</th>
<th>Chemical Names</th>
<th>Percent</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>200-578-6</td>
<td>Isopropanol</td>
<td>75</td>
<td>Flam. Liq. 2 H225, Eye Irrit. 2 H319</td>
</tr>
<tr>
<td>56-81-5</td>
<td>200-289-5</td>
<td>Glycerol</td>
<td>1.5</td>
<td>Not Classified</td>
</tr>
<tr>
<td>7722-84-1</td>
<td>231-765-0</td>
<td>Hydrogen Peroxide</td>
<td>0.1</td>
<td>Ox. Liq. 1 H272, Eye Irrit. 2 A H319, Skin Irrit, H315</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Water</td>
<td>23.4</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

4.1 Eye: Contact with the eyes can cause severe irritation. Symptoms may include discomfort or pain and redness. Severe overexposure can result in swelling of the conjunctiva along with tissue damage.

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.2 Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin and can lead to irritation and dermatitis.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately and wash clothing before reuse.

4.3 Ingestion: Liquid ingestion can cause inebriation, headache, gastrointestinal pain, nausea, and vomiting leading to central nervous system depression. Aspiration of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonitis, pulmonary edema, and even death.

**Ingestion:** Do NOT induce vomiting. Get medical aid immediately.

4.4 Inhalation: Prolonged breathing of high vapor concentrations can produce headaches, dizziness, nausea, and impaired vision. Excessive overexposure can cause central nervous system depression, loss of consciousness, liver damage, and death resulting from respiratory failure.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult and IF TRAINED, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation without protection.

4.5 After first aid, get appropriate paramedic, or community medical support. The severity of outcome following exposure may be more related to the time between the exposure and treatment, rather than the amount of the exposure. Therefore, there is a need for rapid treatment of any exposure.

Section 5 - Fire-Fighting Measures

5.1 General Fire Hazards: Use water to cool containers exposed to fire.

5.2 Hazardous Combustion Products: Avoid fumes of burning products.

5.3 Extinguishing Media: Carbon dioxide, dry chemical, foam.
5.4 Fire Fighting Equipment/Instructions: Firefighters should wear full-face, self-contained breathing apparatus, and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

Section 6 - Accidental Release Measures

6.1 Spill /Leak Procedures: Ventilate area. Wear adequate protective equipment. Spillages of the liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition away from the spill.

6.2 Spills: Avoid direct contact with the material. Stop leak if without risk. Move containers from the spill area. Prevent entry into sewers or waterways. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite, or diatomaceous earth and place in a container for disposal.

Section 7 - Handling and Storage

7.1 Handling Precautions: Wear protective gloves, clothing, and eye protection. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment.

7.2 Storage Requirements: Store in original manufacture container tightly closed container in a cool, dry, and well-ventilated area.

7.3 Chemical Incompatibilities: Strong oxidizing agents and strong reducing agents.

Section 8 - Exposure Controls / Personal Protection

8.1

<table>
<thead>
<tr>
<th>Chemical Names</th>
<th>ACGIH- TLV</th>
<th>OSHA - PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>200ppm TWA</td>
<td>400ppm TWA</td>
</tr>
<tr>
<td>Glycerol</td>
<td>10mg/m3 TWA</td>
<td>15mg/m3 TWA</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>1.4mg/m3</td>
<td>1.4mg/m3</td>
</tr>
</tbody>
</table>

8.2
ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. NOTE: TWA Means “TWA is the employee's average airborne exposure in any 8-hour work shift of a 40-hour workweek which shall not be exceeded.”

8.3 Ventilation: Provide a general or local exhaust ventilation system to maintain airborne concentrations below TLV/PELs Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.4 Contaminated Equipment: Separate contaminated work clothes from street clothes and launder before reuse. Remove this material from your shoes and clean personal protective equipment.
8.5 Personal protective equipment
Respiratory protection
Where risk assessment shows, air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied-air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected before use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the ANSI/ISEA 105-2011 or European EN374 Standard.
Full contact: Viton
Splash contact: Viton
Viton is a Registered Trademark of DuPont Company.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.6 Protective Clothing Pictograms

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**Section 9 - Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State:</strong></td>
<td>Liquid gel</td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td>Various</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>Characteristic order</td>
</tr>
<tr>
<td><strong>Vapor Pressure:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Vapor Density (Air=1):</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Specific Gravity (H2O=1):</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Relative Density:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Odor Threshold:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Partition coefficient octanol/water:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Water Solubility:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
<td>74°F, (23.3°C) closed cup</td>
</tr>
<tr>
<td><strong>Boiling Point/Range:</strong></td>
<td>148.4°F, (64.7°C)</td>
</tr>
<tr>
<td><strong>Lower Explosive Limits (vol % in air):</strong></td>
<td>2.5%</td>
</tr>
<tr>
<td><strong>Upper Explosive Limits (vol % in air):</strong></td>
<td>19%</td>
</tr>
<tr>
<td><strong>Melting Point:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Autoignition Temperature:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not Available</td>
</tr>
</tbody>
</table>

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**Section 10 - Stability and Reactivity**

0.1 **Stability:** Stable under ordinary conditions of use and storage.

10.2 **Polymerization:** Hazardous polymerization has not been reported.
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10.3 Chemical Incompatibilities: Strong oxidizing agents and Perchloric acid.

10.4 Hazardous Decomposition Products: Peroxides

10.5 Conditions to Avoid: Temperatures above 62°C, heat, sparks, open flames, other ignition sources.

### Section 11- Toxicological Information

Acute Toxicity Estimate for this blend (ATE)
ATE (Oral): 5840 mg/kg
ATE (Dermal): 13900 mg/kg
ATE (Inhalation vapor/mist): 72.6 mg/l

11.1.1 OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause Harmful Oral Toxicity.

11.1.2 OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause Harmful Dermal Toxicity.

11.1.3 OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause Harmful Inhalation Toxicity.

11.2 Route of Entry: Skin and Eye Contact.

11.3 Aspiration Hazard: European Chemical Agency Data Base shows that no components of this product may be fatal if swallowed and enters airways.

11.4 Mutagenicity: OECD Guideline Test results found in the European Chemical Agency Data Base show no components of this product to cause genetic defects.

11.5 Skin Corrosion/Irritation: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause skin irritation. Repeated exposure may cause skin dryness or cracking.

11.6 Serious Eye Damage/Irritation: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause serious eye irritation.

11.7 Reproductive toxicity: OECD Guideline Test results found in the European Chemical Agency Data Base show no components of this product to cause damage to fertility or the unborn child.

11.8 Skin Sensitization OECD Guideline Tests results found in the European Chemical Agency Data Base show no components of this product to cause skin sensitivity.

11.9 Respiratory Sensitization OECD Guideline Tests results found in the European Chemical Agency Data Base show no components of this product to cause respiratory sensitivity.

11.10 Specific Target Organ Toxicity (Single Exposure): European Chemical Agency Data Base shows that components no of this product may cause damage to Target Organ Toxicity due to a single exposure.

11.11 Specific Target Organ Toxicity (Repeated Exposure): European Chemical Agency Data Base shows that components no of this product may cause damage to Target Organ Toxicity due to repeat exposure.
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11.12 **Signs and Symptoms:** Effects due to exposure may include: Headache, Dizziness, Drowsiness. Symptoms may be delayed.

11.13 **Carcinogenicity:** OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause cancer.

### Section 12 - Ecological Information

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Results</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>9640</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

**Toxicity:** OECD Guideline Test results found in the European Chemical Agency DataBase show no components of this product to harmful and can cause long-term toxicity to aquatic life.

12.2 **Mobility:** Floats on water

12.3 **Persistence/degradability:** Inconclusive technical data.

12.4 **Bioaccumulation:** Inconclusive technical data.

12.5 **Other adverse effects:** Inconclusive technical data.

### Section 13 - Disposal Considerations

13.1 **Disposal:** DO NOT REUSE EMPTY CONTAINER! The container should be emptied before discard. Container with residues should be considered to be hazardous wastes. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

### Section 14 - Transport Information

14.1 **DOT Transport Information**

<table>
<thead>
<tr>
<th>ID No.: UN 1993</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Name:</td>
</tr>
<tr>
<td>Hazard Class:</td>
</tr>
<tr>
<td>Packing Group:</td>
</tr>
<tr>
<td>Label:</td>
</tr>
<tr>
<td>Placard:</td>
</tr>
</tbody>
</table>
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14.2 DOT Transport Limited Quantity/Consumer Commodity
Inner packaging not over
5.0L (1.3 gallons) net capacity each.
Outer Package not over 30kg (66lbs) each

Section 15 - Regulatory Information

15.1 US Regulations:
TSCA: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

Toxic Release Inventory (TRI): This product doesn't contain chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know- Act of 1986 (40 CFR 372).

CERCLA Hazardous Substances and corresponding RQs: None
SARA Community Right-to-Know Program: None

Clean Water Act: None
Clean Air Act: None

OSHA: All ingredients are listed in 29 CFR 1910.1200

State Regulations
No Prop 65 Warning www.P65Warnings.ca.gov.*

Chemicals on the following State Right to Know Lists:
Massachusetts: All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements.

New Jersey All components of this product are on the New Jersey inventory or are exempt from Inventory requirements.

Pennsylvania: All components of this product are on the Pennsylvania Inventory or are exempt from Inventory requirements.

Section 16 - Other Information

16.1 Disclaimer: The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.
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16.2 References: CHEMpendium database of the Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller online, European Chemical Agency Data Base, and MSDS and SDS of chemicals in this mixture.

16.3 SDS Preparation Date 03/26/2020
SDS Previous Issue Date: None

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