SECTION 1. IDENTIFICATION

Product identifier

Product Name: Parallel 49 Brewing Liquid Hand Sanitizer.

Manufacturer or supplier’s details

Company name of supplier: Parallel 49 Brewing Company
Address: 1950 Triumph Street, Vancouver, BC, Canada. V5L 1K5
Telephone: 604-558-2739
Emergency telephone number: 1-800-567-8911 - Poison Control

Recommended use of the chemical and restrictions on use

Recommended use: Hand Sanitizer
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.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classifications

Flammable Liquid: Category 3
Eye Irritation: Category 2A
Pictograms:

- Flammable liquid and vapor
- Causes serious eye irritation

Signal Word: Warning

Hazard Statements: Flammable liquid and vapor. Causes serious eye irritation

Precautionary Statements:

**Prevention:**
- Keep away from heat/sparks/open flames/hot surfaces.
- No Smoking.
- Keep container tightly closed.
- Use explosion proof electrical/ventilating/lighting equipment
- Use non-sparking tools.
- Take precautionary measures against static discharge.
- Wash skin thoroughly after handling.
- Wear protective gloves/eye protection. Face protection.

**Response:**
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: get medical advice/attention.

**Storage:**
- Store in a well-ventilated place. Keep cool.

**Disposal:**
- Dispose of contents/container to an approved waste disposal plant in accordance with municipal, provincial and federal regulation.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/Mixture:** Mixture

**Hazardous ingredients**

Revised: 23 March 2020
## Safety Data Sheet

**Parallel 49 Brewing Company Liquid Hand Sanitizer**

**Version 1.0**

**Revised:** 23 March 2020

---

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>80</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>1.45</td>
</tr>
<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>0.125</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 advice.

**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.

**In case of eye contact:**
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention.

**If swallowed:**
If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

**Most important symptoms and effects, both acute and delayed:**
Causes serious eye irritation.

**Protection of first-aiders:**
First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

**Notes to physician:**
Treat symptomatically and supportively.

### SECTION 5. FIRE-FIGHTING MEASURES

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

**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. Exposure to combustion products may be a hazard to health.

**Hazardous combustion products:**
Carbon 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 personal protective equipment 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 and materials for containment and 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.

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 CONTROL/PERSONAL PROTECTION

### Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Value type (form of exposure)</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 1,900 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>TWA</td>
<td>1.4mg/m3</td>
<td>OSHA PEL</td>
</tr>
<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>TWA</td>
<td>10mg/m3 3mg/m3</td>
<td>BC OEL</td>
</tr>
</tbody>
</table>

Consult local authorities for recommended exposure limits.

### 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-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: clear
Odor: none
Odor Threshold: No data available
pH: 6.5 - 8.5
Melting point/freezing point: No data available
Initial boiling point and boiling range: 70 °C
Flash point: 25 °C
Evaporation rate: No data available
Flammability (solid, gas): Not applicable
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapor pressure: No data available
Relative vapor density: No data available
Density: 0.85858 g/cm³
Water solubility: soluble
Partition coefficient: Not applicable
Auto ignition temperature: No data available
Decomposition temperature: The substance or mixture is not classified self-reactive.
Viscosity, kinematic: No data available
Explosive properties: Not explosive
Oxidizing properties: The substance or mixture is not classified as oxidizing.
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Flammable liquid and vapor. Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidizing agents Hazardous decomposition products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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 method

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

Hydrogen Peroxide:

Acute oral toxicity: No data available.

Acute inhalation toxicity: No data available.

Glycerine:

Acute oral toxicity: LD50 (Rat) : > 12,600 mg/kg

Acute inhalation toxicity: LC50 (Rat): >570 mg/m3 Exposure time: 1 h Test atmosphere: vapor

Skin corrosion/irritation Not classified based on available information.

Serious eye damage/eye irritation Causes serious eye irritation

Respiratory or skin sensitization Not classified based on available information
**Germ cell mutagenicity**  Not classified based on available information

**Carcinogenicity**  Not classified based on available information

**Reproductive toxicity**  Not classified based on available information

**Specific target organs – single exposure**  Not classified based on available information.

**Specific target organs – repeated exposure**  Not classified based on available information

**Aspiration hazard**  Not classified based on available information

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Ecotoxicity – Freshwater Algae Data</th>
<th>Ecotoxicity – Fish Species Data</th>
<th>Ecotoxicity - Crustaceans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Not available</td>
<td>12.0-16.0 mL/L LC50 (Oncorhynchus mykiss 96 hr)</td>
<td>Not available</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Glycerine</td>
<td>Not available</td>
<td>51-57 mL/L LC50 (Oncorhynchus mykiss 96 hr)</td>
<td>EC50: &gt;500mg/L (24hr Daphnia magna)</td>
</tr>
</tbody>
</table>

**Persistence and degradability**  readily biodegradable

**Bioaccumulation potential**  low

**Other adverse effects**  no data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste from residues:**  Dispose of in accordance with local regulations.

**Contaminated packaging:**  Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORTATION INFORMATION**

**International Regulation**

**UNRTDG**

**UN number:**  UN 1987

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

**Class:**  3

**Packing group:**  III
SECTION 15. REGULATORY INFORMATION

Canada

Canada Domestic Substance List (DSL): All ingredients are listed.

Canadian NPRO Ingredient Disclosure list (limit 0.1%): None off the ingredients is listed.

SECTION 16. OTHER INFORMATION

Further information

Sources of key data used to compile the Material Safety Data Sheet: Internal technical data, data from raw material SDSs.

Revision Date: 23March2020

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user’s end product, if applicable.