1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: HALT
Product Number: 1018, 4806
Recommended Use: Disinfectant
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 1

GHS Label Elements
Signal Word: Danger
Symbols: 

Hazard Statements: Causes serious eye damage
Causes skin irritation.

Precautionary Statements:
Prevention: Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.

Response:
-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

-Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse

-Specific Treatment: See Safety Data Sheet Section 4: “FIRST AID MEASURES” for additional information.

Storage: Not Applicable
Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable
Other Information: • Harmful if swallowed
• Inhalation of vapors or mist may cause respiratory irritation.
• Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>C9-11 Pareth-6</td>
<td>68439-46-3</td>
<td>1-5</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>1-5</td>
</tr>
<tr>
<td>Benzalkonium Chloride</td>
<td>68391-01-5</td>
<td>1-5</td>
</tr>
<tr>
<td>Alkyl C12-14 Dimethyl Ethylbenzyl Ammonium Chloride</td>
<td>85409-23-0</td>
<td>1-5</td>
</tr>
<tr>
<td>Tetrasodium EDTA</td>
<td>64-02-8</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Limonene</td>
<td>5989-27-5</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Citrus Aurantium Dulcis Peel Oil</td>
<td>8008-57-9</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Fragrance</td>
<td>PROPRIETARY</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Tangerine Oils</td>
<td>8016-85-1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Orange Terpenes</td>
<td>8028-48-6</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Decanal</td>
<td>112-31-2</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Octanal</td>
<td>124-13-0</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Ethyl Butyrate</td>
<td>105-54-4</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Colorant</td>
<td>PROPRIETARY</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Skin Contact: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation occurs: Get medical attention.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

Note to Physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical: Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products: May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Suggested Shelf Life: 1 year from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles. For severe use-conditions, wear a face shield over the goggles.
Skin and Body Protection: Wear rubber or other chemical-resistant gloves.
Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance/Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Orange</td>
</tr>
<tr>
<td>Odor:</td>
<td>Pleasant</td>
</tr>
<tr>
<td>pH:</td>
<td>11.0-12.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range:</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt; 100 °C / &gt; 212 °F</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.036</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

### 11. TOXICOLOGICAL INFORMATION

#### Likely Routes of Exposure:
Eyes, Skin, Ingestion, Inhalation.

#### Symptoms of Exposure:
- **Skin Contact:** Pain, redness and cracking of the skin.
- **Inhalation:** Nasal discomfort and coughing.
- **Ingestion:** Pain, nausea, vomiting and diarrhea.

#### Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

#### Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

- **ATEmix (oral):** 2041 mg/kg
- **ATEmix (dermal):** 5797 mg/kg
- **ATEmix (inhalation-dust/mist):** 50.1 mg/l

#### Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water 7732-18-5</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>C9-11 Pareth-6 68439-46-3</td>
<td>= 1400 mg/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium Carbonate 497-19-8</td>
<td>= 4000 mg/kg (Rat)</td>
<td>Not Available</td>
<td>= 2300 mg/m³ (Rat) 2 h</td>
</tr>
<tr>
<td>Benzalkonium Chloride 68391-01-5</td>
<td>= 850 mg/kg (Rat)</td>
<td>= 2300 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Tetrasodium EDTA 64-02-8</td>
<td>= 1658 mg/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Limonene 5989-27-5</td>
<td>= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)</td>
<td>&gt; 5 g/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Citrus Aurantium Dulcis Peel Oil 8008-57-9</td>
<td>= 4400 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Decanal 112-31-2</td>
<td>= 3730 µL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Octanal 124-13-0</td>
<td>= 4616 mg/kg (Rat)</td>
<td>= 5207 mg/kg (Rabbit)</td>
<td>&gt; 4.7 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Ethyl Butyrate 105-54-4</td>
<td>= 13 g/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

#### Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Carbonate 497-19-8</td>
<td>Not Available</td>
<td>300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static</td>
<td>Not Available</td>
<td>265: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Tetrasodium EDTA 64-02-8</td>
<td>1.01: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
### Persistence and Degradability:
- No information available.

### Bioaccumulation:
- No information available.

### Other Adverse Effects:
- No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal of Wastes:
Dispose of in accordance with federal, state and local regulations.

#### Contaminated Packaging:
Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

#### DOT:
- Not Regulated

#### Proper Shipping Name:
- Non-Hazardous Product

#### Special Provisions:
Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

#### IMDG:
- Not Regulated

#### Proper Shipping Name:
- Non-Hazardous Product

### 15. REGULATORY INFORMATION

#### TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### SARA 313
This product does not contain listed substances above the "de minimus" level

#### SARA 311/312 Hazard Categories
- **Acute Health Hazard:** Yes
- **Chronic Health Hazard:** No
- **Fire Hazard:** No
- **Sudden release of pressure hazard:** No
- **Reactive Hazard:** No

#### EPA Pesticide Registration Number: 10324-93-5741

#### EPA Statement:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label:**
DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

### 16. OTHER INFORMATION

#### NFPA
- **Health Hazards:** 3
- **Flammability:** 0
- **Instability:** 0
- **Special:** N/A

#### HMIS
- **Health Hazards:** 3
- **Flammability:** 0
- **Physical Hazards:** 0

#### Revision Date:
09-Sep-2019
Reasons for Revision:
Section, 2, 3, 4, 11, and 12

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