1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong></td>
</tr>
<tr>
<td><strong>Product Number:</strong></td>
</tr>
<tr>
<td><strong>Recommended Use:</strong></td>
</tr>
<tr>
<td><strong>Uses Advised Against:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer/Supplier:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spartan Chemical Company, Inc.</td>
</tr>
<tr>
<td>1110 Spartan Drive</td>
</tr>
<tr>
<td>Maumee, Ohio 43537 USA</td>
</tr>
<tr>
<td>800-537-8990 (Business hours)</td>
</tr>
<tr>
<td><a href="http://www.spartanchemical.com">www.spartanchemical.com</a></td>
</tr>
</tbody>
</table>

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

2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation:</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation:</td>
</tr>
<tr>
<td>Flammable Liquids:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GHS Label Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal Word:</strong></td>
</tr>
<tr>
<td><strong>Symbols:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard Statements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Flammable liquid and vapor.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary Statements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention:</td>
</tr>
<tr>
<td>Wash hands and any exposed skin thoroughly after handling.</td>
</tr>
<tr>
<td>Wear protective gloves</td>
</tr>
<tr>
<td>Wear eye / face protection</td>
</tr>
<tr>
<td>Keep away from heat/sparks/open flames/hot surfaces. — No smoking</td>
</tr>
<tr>
<td>Keep container tightly closed</td>
</tr>
<tr>
<td>Ground container and receiving equipment.</td>
</tr>
<tr>
<td>Use explosion-proof electrical equipment</td>
</tr>
<tr>
<td>Use only non-sparking tools</td>
</tr>
<tr>
<td>Take precautionary measures against static discharge</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Response:</th>
</tr>
</thead>
<tbody>
<tr>
<td>-Eyes</td>
</tr>
<tr>
<td>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 attention.</td>
</tr>
</tbody>
</table>
-Skin  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

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

Fire:  
In case of fire: Use CO2, dry chemical, or foam for extinction

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

Disposal:  
Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified:  
Not Applicable

Other Information:  
- May be 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>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>10-30</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>1-5</td>
</tr>
<tr>
<td>Sodium Laureth Sulfate</td>
<td>9004-82-4</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Caprylyl/Carpyl Glucoside</td>
<td>68515-73-1</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Lauryl Glucoside</td>
<td>110615-47-9</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Fragrance</td>
<td>PROPRIETARY</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Phenethyl Alcohol</td>
<td>60-12-8</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Hexyl Cinnamal</td>
<td>101-86-0</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Benzyl Salicylate</td>
<td>118-58-1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Benzyl Acetate</td>
<td>140-11-4</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Tetrahydrolinalool</td>
<td>78-69-3</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Limonene</td>
<td>5989-27-5</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Linalyl Acetate</td>
<td>115-95-7</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Acid Blue 1</td>
<td>129-17-9</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. If eye irritation persists: Get medical attention.

-Skin Contact:  
Take off immediately all contaminated clothing and shoes. Rinse with water or shower. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse.

-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:  
CO2, dry chemical, dry sand, alcohol-resistant foam, Move containers from fire area if you can do it without risk

Specific Hazards Arising from the Chemical:  
flammable. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

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: Remove all sources of ignition. Use personal protective equipment as required. Stop leak if you can do it without risk. All equipment used when handling the product must be grounded.

Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Clean-Up: Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

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 away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Suggested Shelf Life: Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>STEL: 400 ppm, TWA: 200 ppm</td>
<td>TWA: 400 ppm, TWA: 980 mg/m³ (vacated)</td>
<td>TWA: 400 ppm, TWA: 980 mg/m³ (vacated)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 10 ppm, TWA: 25 mg/m³ (vacated)</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>STEL: 15 ppm, TWA: 10 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 10 ppm, TWA: 25 mg/m³</td>
</tr>
<tr>
<td>Benzyl Acetate</td>
<td>TWA: 10 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

Personal Protective Equipment

Eye/Face Protection: Wear splash 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.

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: Heat, flames and sparks. Extremes of temperature and direct sunlight. Take precautionary measures against static discharges.


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:
- Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
- 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.

Chronic Toxicity: Avoid repeated exposure.

Target Organ Effects:

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

ATEmix (oral): 8630 mg/kg
ATEmix (dermal): 12936 mg/kg
ATEmix (inhalation-dust/mist): 186.5 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</td>
<td>&gt; 90 mL/kg ( Rat )</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>7732-18-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>1870 mg/kg ( Rat )</td>
<td>4059 mg/kg ( Rabbit )</td>
<td>72600 mg/m³ ( Rat ) 4 h</td>
</tr>
<tr>
<td>67-63-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>3310 mg/kg ( Rat )</td>
<td>1060 mg/kg ( Rabbit )</td>
<td>11.4 mg/L ( Rat ) 4 h</td>
</tr>
<tr>
<td>64-19-7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sodium Laureth Sulfate  
9004-82-4  
= 1600 mg/kg (Rat)  
Not Available  
Not Available

Phenethyl Alcohol  
60-12-8  
= 1609 mg/kg (Rat)  
= 2535 mg/kg (Rabbit)  
> 4.63 mg/L (Rat) 4 h

Hexyl Cinnamal  
101-86-0  
= 3100 mg/kg (Rat)  
> 3000 mg/kg (Rabbit)  
> 5 mg/L (Rat) 4 h

Benzyl Salicylate  
118-58-1  
= 2227 mg/kg (Rat)  
> 5000 mg/kg (Rabbit)  
Not Available

Benzyl Acetate  
140-11-4  
= 2490 mg/kg (Rat)  
> 5000 mg/kg (Rabbit)  
Not Available

Tetrahydrolinalool  
78-69-3  
> 5 g/kg (Rat)  
> 5000 mg/kg (Rabbit)  
Not Available

Limonene  
5989-27-5  
= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)  
> 5 g/kg (Rabbit)  
Not Available

Linalyl Acetate  
115-95-7  
= 14550 mg/kg (Rat)  
> 5000 mg/kg (Rabbit)  
Not Available

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

12. ECOLOGICAL INFORMATION

<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>
</table>
| Isopropyl Alcohol    | 1000: 96 h Desmodesmus subspicatus mg/L EC50  
1000: 72 h Desmodesmus subspicatus mg/L EC50  
9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50  
Not Available  
13299: 48 h Daphnia magna mg/L EC50 |
| Acetic Acid          | Not Available  
79: 96 h Pimephales promelas mg/L LC50 static  
75: 96 h Lepomis macrochirus mg/L LC50 static  
Not Available  
65: 48 h Daphnia magna mg/L EC50 Static |
| Phenethyl Alcohol    | 490: 72 h Desmodesmus subspicatus mg/L EC50  
Not Available  
287.17: 48 h Daphnia magna mg/L EC50 |
| Limonene             | Not Available  
0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50  
Not Available  
Not Available |

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

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

US EPA Waste Number: D001, D002

14. TRANSPORT INFORMATION

DOT:  
UN/ID No: UN1993  
Proper Shipping Name: Flammable liquids, n.o.s., (contains isopropanol)  
Hazard Class: 3  
Packing Group: III
Special Provisions: Class 3, Packing Group III materials meet the exception requirements of section 49 CFR 173.150 when individual containers of not more than 1.3 gallons are packed in a strong outer packaging and ground transportation is utilized. Such containers may be reclassified as “Limited Quantity”. 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:
- UN/ID No: UN1993
- Proper Shipping Name: Flammable liquids, n.o.s., (contains isopropanol)
- Hazard Class: 3
- Packing Group: III

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 contains the following listed substances:

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

California Proposition 65
This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA
- Health Hazards: 2
- Flammability: 3
- Instability: 0
- Special: N/A

HMIS
- Health Hazards: 2
- Flammability: 3
- Physical Hazards: 0

Revision Date: 17-Mar-2020
Reasons for Revision: Section, 11

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