1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: SPARCLEAN HIGH TEMPERATURE RINSE AID [52]
Product Number: 7652, 7652I
Recommended Use: Machine dishwasher rinse aid.
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

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:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Do not mix with hypochlorite-type bleach or other household chemicals as hazardous vapors or gases may be produced.
- 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>Polyalkylene Glycol</td>
<td>9003-11-6</td>
<td>7-13</td>
</tr>
<tr>
<td>Lactic Acid</td>
<td>79-33-4</td>
<td>1-5</td>
</tr>
<tr>
<td>Sodium Xylenesulfonate</td>
<td>1300-72-7</td>
<td>1-5</td>
</tr>
<tr>
<td>Alcohols, C9-11, Ethoxylated Propoxylated</td>
<td>103818-93-5</td>
<td>1-5</td>
</tr>
<tr>
<td>Acid Blue 9</td>
<td>3844-45-9</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Yellow 5</td>
<td>1934-21-0</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:** Do not mix or use with sodium hypochlorite (bleach) or other hypochlorites. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites).

Suggested Shelf Life: Minimum of 2 years 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.

**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. See 29 CFR 1910.132-138 for further guidance.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mild</td>
</tr>
<tr>
<td>pH:</td>
<td>1.0-2.5</td>
</tr>
<tr>
<td>Melting Point / Freezing Point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range:</td>
<td>No information available. 200-210</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt; 99 °C / &gt; 210 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt; 1 (BuAc = 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>1.033</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>No information available.</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:** Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.

**Conditions to Avoid:** Extremes of temperature and direct sunlight.

**Incompatible Materials:** Sodium hypochlorite (or other hypochlorites).

**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 tissue damage. Eye contact may cause permanent damage.
- **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):** 11942 mg/kg
- **ATEmix (dermal):** 45442 mg/kg

### Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Inhalation LC50 (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water</strong></td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Polyalkylene Glycol</strong></td>
<td>5700 (Rat) = 16 (Rat)</td>
<td>Not Available</td>
<td>= 320 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td><strong>Lactic Acid</strong></td>
<td>3730 (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Sodium Xylenesulfonate</strong></td>
<td>1000 (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><strong>Lactic Acid</strong></td>
<td>Not Available</td>
<td>320: 96 h Brachydanio rerio mg/L LC50 semi-static 100 - 180: 96 h Lepomis macrochirus mg/L LC50 static 100 - 180: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>Not Available</td>
<td>240: 48 h Daphnia magna mg/L EC50 180 - 320: 48 h Daphnia magna mg/L EC50 Static</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

16. OTHER INFORMATION

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

NFPA
- Health Hazards: 2
- Flammability: 0
- Physical Hazards: 0

Revision Date: 01-Nov-2019
Reasons for Revision: Section, 2, 3, 4, 8, 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