1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: GLASS CLEANER (AEROSOL)
Product Number: 6217
Recommended Use: Glass cleaner
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
Flammable Aerosols
Gases Under Pressure

GHS Label Elements
Signal Word: Danger
Symbols:

Hazard Statements:
Extremely flammable aerosol.
Contains gas under pressure; may explode if heated

Precautionary Statements:
Prevention:
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use
Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

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

Storage:
Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C) Store in a well-ventilated place

Disposal:
Not Applicable

Hazards Not Otherwise Classified: Not Applicable
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>1-5</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>1-5</td>
</tr>
<tr>
<td>Propylene Glycol Propyl Ether</td>
<td>1569-01-3</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Morpholine</td>
<td>110-91-8</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Sodium Nitrite</td>
<td>7632-00-0</td>
<td>0.1-1</td>
</tr>
<tr>
<td>C9-11 Pareth-6</td>
<td>68439-46-3</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Fragrance</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 several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- **Skin Contact:** Wash with soap and water. 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:** Water spray (fog), Foam

**Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.

**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. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water. 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. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling.

Storage Conditions: NFPA 30B Level 1 Aerosol. Do not store in direct sunlight or above 122 F° / 50 C°. Exposure to high temperature may cause containers to burst. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep out of the reach of children.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
</table>
| Isopropyl Alcohol 67-63-0 | STEL: 400 ppm  
 TWA: 200 ppm  | TWA: 400 ppm  
 TWA: 980 mg/m³  
 (vacated) TWA: 400 ppm  
 (vacated) STEL: 500 ppm  
 (vacated) STEL: 1225 mg/m³  | IDLH: 2000 ppm  
 TWA: 400 ppm  
 TWA: 980 mg/m³  
 STEL: 500 ppm  
 STEL: 1225 mg/m³  |
| Butane 106-97-8 | STEL: 1000 ppm  
 (vacated) TWA: 800 ppm  
 (vacated) TWA: 1900 mg/m³  | TWA: 800 ppm  
 TWA: 1900 mg/m³  | |
| Propane 74-99-6 | See Appendix F: Minimal Oxygen Content  | TWA: 1000 ppm  
 TWA: 1800 mg/m³  
 (vacated) TWA: 1000 ppm  
 (vacated) TWA: 1800 mg/m³  | IDLH: 2100 ppm  
 TWA: 1000 ppm  
 TWA: 1800 mg/m³  |
| Morpholine 110-91-8 | TWA: 20 ppm  
 S* | TWA: 20 ppm  
 TWA: 70 mg/m³  
 (vacated) TWA: 20 ppm  
 (vacated) TWA: 70 mg/m³  
 (vacated) STEL: 30 ppm  
 (vacated) STEL: 105 mg/m³  
 (vacated) S*  
 S* | IDLH: 1400 ppm  
 TWA: 20 ppm  
 TWA: 70 mg/m³  
 STEL: 30 ppm  
 STEL: 105 mg/m³  |

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: Not required with expected use.

Skin and Body Protection: Not required with expected use.

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.

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:
- Eye Contact: Pain and redness.
- Skin Contact: Drying of the skin.
- Inhalation: Nasal discomfort and coughing. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
- Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.
Target Organ Effects: Central nervous system. -Eyes. Respiratory System. -Skin.
Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

\[
\begin{array}{llll}
\text{ATEmix (oral):} & 24024 \text{ mg/kg} \\
\text{ATEmix (inhalation-gas):} & 12445298 \\
\text{ATEmix (inhalation-dust/mist):} & 1968.9 \text{ mg/l}
\end{array}
\]

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>Isopropyl Alcohol 67-63-0</td>
<td>= 1870 mg/kg (Rat)</td>
<td>= 4059 mg/kg (Rabbit)</td>
<td>= 72600 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Butane 106-97-8</td>
<td>Not Available</td>
<td>Not Available</td>
<td>= 658 g/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>
### 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>Isopropyl Alcohol</td>
<td>1000: 96 h Desmodesmus subspicatus mg/L EC50</td>
<td>9640: 96 h Pimephales promelas mg/L LC50</td>
<td>Not Available</td>
<td>13299: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td></td>
<td>1000: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Morpholine</td>
<td>28: 96 h Pseudokirchneriella subcapitata mg/L EC50 static</td>
<td>350: 96 h Lepomis macrochirus mg/L LC50</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium Nitrite</td>
<td>Not Available</td>
<td>0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static 2.3: 96 h Pimephales promelas mg/L LC50 flow-through 20: 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:

Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

**DOT:**

**UN/ID No:** UN1950

**Proper Shipping Name:** Aerosols

**Hazard Class:** 2.1
Special Provisions: This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a 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:** UN1950
- **Proper Shipping Name:** Aerosols
- **Hazard Class:** 2.1
- **Additional information:** Dangerous Goods in Limited Quantities, Maximum 1 L

## 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:** Yes
- **Sudden release of pressure hazard:** Yes
- **Reactive Hazard:** No

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

## 16. OTHER INFORMATION

**NFPA**

- Health Hazards: 1
- Flammability: 3
- Instability: 0
- Special: N/A

**HMIS**

- Health Hazards: 1
- Flammability: 3
- Physical Hazards: 2

**Revision Date:** 26-Nov-2019

**Reasons for Revision:** Section, 3, 5, 7, 8, 11, 12, and, 16

**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