Spartan Chemical Company, Inc.
Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label): ISHINE
Product Number: 4055

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product Division: Janitorial

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Non-Hazardous Products

NFPA Ratings:
Health: 1 - Slight
Fire: 0 - Minimal
Reactivity: 0 - Minimal

HMIS Ratings:
Health: *1 - Slight; Chronic Hazard
Fire: 0 - Minimal
Reactivity: 0 - Minimal
Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

<table>
<thead>
<tr>
<th>Chemical Name(s)</th>
<th>%Wt</th>
<th>CAS Registry No.</th>
<th>TWA mg/m³</th>
<th>STEL mg/m³</th>
<th>CEILING mg/m³</th>
<th>NTP, IARC or OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic polymer</td>
<td>15-20</td>
<td>Proprietary</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Diethylene glycol ethyl ether</td>
<td>5-10</td>
<td>111-90-0</td>
<td>140 (AIHA)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Tributoxyethyl phosphate</td>
<td>1-5</td>
<td>78-51-3</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Styrene / Acrylic copolymer</td>
<td>1-5</td>
<td>Proprietary</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Dipropylene glycol methyl ether</td>
<td>1-5</td>
<td>34590-94-8</td>
<td>600 [skin]</td>
<td>909 (ACGIH)</td>
<td>Not Established</td>
<td>No</td>
</tr>
</tbody>
</table>

Comment: * This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F
Vapor Pressure: Unknown

Vapor Density (AIR = 1): Unknown
Specific Gravity (H₂O = 1): 1.037
Evaporation Rate (but.acet.=1): <1
Percent Solid by Weight: 25-35
Physical State: Liquid
Appearance & Odor: Translucent emulsion, ammoniacal odor

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 210 °F
Method Used: ASTM-D56

Extinguishing Media: Product does not support combustion. Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Unusual Fire & Explosive Hazards: Dried Product can burn. Combustion products are toxic.
SECTION V: HEALTH HAZARD DATA

Threshold Limit Value: Not Established
Primary Routes of Entry: Inhalation, Skin Contact, Eyes

Effects of Overexposure:
- **Causes mild eye irritation**: Symptoms may include pain, redness, swelling and tearing.
- **May cause skin irritation**: Symptoms may include redness, pain and swelling.
- **Inhalation of vapors may cause respiratory irritation, headache and nausea**.
  - Contains diethylene glycol monoethyl ether which may cause central nervous system depression, liver and kidney impairment.
  - Contains tributoxyethyl phosphate which may cause nervous system effects such as ataxia, breathing abnormalities and tremors with prolonged or repeated contact. No chronic health effects are expected from the intended use of this product.

Conditions to Avoid:
- Avoid contact with eyes and skin. Avoid breathing product vapors or mist. Use with adequate ventilation.
- Do not taste or swallow. Wash thoroughly after handling.

Conditions Aggravated by Use:
- Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.

Emergency & First Aid Procedures:
- **Eyes**: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Get medical attention.
- **Skin**: Remove contaminated clothing. Flush skin thoroughly with plenty of water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
- **Ingestion**: Do not induce vomiting unless told to do so by medical personnel. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.
- **Inhalation**: Move person to fresh air. If irritation persists get medical attention.

SECTION VI: REACTIVITY DATA

Stability: Stable
Incompatible Materials: None known

Hazardous Decomposition Products: None known
Hazardous Polymerization: Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
- Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for disposal. Keep spill out of storm sewers and waterways.

Waste Disposal Method: Dispose of in compliance with all federal, state and local laws and regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not usually required when good general ventilation is provided. However if exposure levels are exceeded (see Section II) or if respiratory irritation occurs, use of a NIOSH approved respirator suitable for the conditions of use and chemicals listed in Section II should be considered.

Ventilation: Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

Protective Gloves(Specify Type): Rubber or other impervious gloves are recommended.

Eye Protection(Specify Type): Splash goggles are recommended to prevent eye contact.


SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing: Keep from freezing.

Other Precautions: Keep out of reach of children.

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ISHINE Effective Date: 05/12/2011 Supercedes: 09/22/2008
Ref. 29 CFR 1910.1200 (OSHA) Changes: Formula Revision

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