SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Oxalic Acid
   Product Form: Crystalline
1.2 Product Use: Wood Bleach
1.3 Supplier/Manufacturer: Empire Blended Products Inc.
   250 Hickory Lane
   Bayville, NJ 08721
   Phone Number: (732) 269-4949
1.4 Emergency Number: CHEMTREC (800) 424-9300

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the Chemical:
   Hazard Class:
   Acute toxicity 4 (oral)
   Acute toxicity 4 (dermal)
   Serious eye damage 1

2.2 Label Elements:
   Hazard Pictogram: 
   Signal Word: Danger
   Hazard Statement: Harmful if swallowed or in contact with skin. Causes serious eye damage.
   Prevention: Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves/protective clothing.
   Response: If Swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.
           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 doctor/physician.
           If on Skin: Wash with plenty of soap and water. Call a poison center or doctor/physician if you feel unwell.
   Disposal: Dispose of contents and container to an approved waste disposal plant. Wash contaminated clothing before reuse.

2.3 Additional Information:
   Hazards not otherwise classified: N/A
SAFETY DATA SHEET

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Wt. %</th>
<th>GHS-US Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxalic Acid</td>
<td>144-62-7</td>
<td>&lt;= 100</td>
<td>Acute Tox. 4, Eye Dam. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H302, H312, H318</td>
</tr>
</tbody>
</table>

Section 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye: In case of contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: In case of contact, wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed: The most important known symptoms and effects are described in the labelling (see section 2.2 and/or section 11).

4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed:

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: N/A

5.2 Special Hazards Arising From the Chemical: Carbon oxides

5.3 Special Protective Equipment and Precautions for Fire Fighters: Wear self-contaminated breathing apparatus for firefighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For person protection see section 8.

6.2 Environmental Precautions: Do not let product enter drains.

6.3 Methods and Materials for Containment/Cleanup: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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Section 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Storage: Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Storage class (TRGS 510): Noncombustible solids.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters:

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>ACGIH - STEL</th>
<th>ACGIH-TWA</th>
<th>NIOSH – TWA</th>
<th>NIOSH-ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxalic Acid</td>
<td>2 mg/m³</td>
<td>1 mg/m³</td>
<td>1 mg/m³</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual Protective Measures:

Personal Protective Equipment:

Eye/Face Protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure: Do not let product enter drains.
Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:
   - **Appearance:** Crystalline
   - **Color:** White
   - **Odor:** Odorless
   - **Odor Threshold:** N/A
   - **Physical State:** Crystalline
   - **pH:** 1.3 at 9 g/l
   - **Viscosity:** N/A
   - **Boiling Point:** 157 °C (315 °F) at 1,013 hPA (760 mmHg)
   - **Melting/Freezing Point:** 189.5 °C (373.1 °F)
   - **Flash Point:** N/A
   - **Evaporation Rate:** N/A
   - **Lower Flammability Limit:** N/A
   - **Vapor Pressure:** < 0.01 hPa (< 0.01 mmHg) at 20 °C (68 °F)
   - **Vapor Density:** N/A
   - **Relative Density:** 1.9 g/cm³ at 25 °C (77 °F)
   - **Bulk Density:** N/A
   - **Lower Explosion Limit:** N/A
   - **Upper Explosion Limit:** N/A
   - **Solubility in Water:** 108 g/l at 25 °C (77 °F) - Soluble
   - **Partial Coefficient: n-octanol/water:** Log Pow: -1.699 at 23 °C (73 °F)
   - **Auto-ignition Temperature:** N/A
   - **Percent Volatile, wt. %:** N/A
   - **Surface Tension:** 70.1 mN/m at 0.014 at 25 °C (77 °F)

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity: No data available.
10.2 Chemical Stability: Stable under recommended storage conditions.
10.3 Possibility of Hazardous Reactions: No data available.
10.4 Conditions to Avoid: Avoid moisture.
10.5 Incompatible Materials: Metals, Alkali metals
10.6 Hazardous Decomposition Products: No data available.
SAFETY DATA SHEET

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50- Oral</th>
<th>LD50- Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxalic Acid</td>
<td>1,080 mg/kg, rat</td>
<td>20,000 mg/kg, rabbit</td>
</tr>
</tbody>
</table>

11.2 Delayed, Immediate and Chronic Effects of Short- and Long- Term Exposure:

Skin Corrosion/Irritation: No skin irritation.
Serious Eye Damage/Irritation: Risk of serious damage to eyes.
Respiratory or Skin Sensitization: Does not cause skin sensitization.
STOT-Single Exposure: N/A
Germ Cell Mutagenicity: This product is not classified as a mutagen.
Reproductive Toxicity: Possible risk of congenital malformation in the fetus. Effects of fertility: other measures of fertility effects on embryo or fetus: Fetotoxicity
STOT-Repeated Exposure: N/A
Aspiration Hazard: N/A
Toxicologically Synergistic Materials: N/A
Other Information: N/A

Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Toxicity to fish: Static test LC50 – Leuciscus idus melanotus – 160 mg/l 48 hr
Toxicity to Daphnia and Other Aquatic Invertebrates: Immobilization EC50 – Daphnia magna (water flea) – 162.2 mg/l 48 hr

12.2 Persistence and Degradability: Aerobic – Exposure time 20 d. Result: 89% - Readily Biodegradable

12.3 Bioaccumulative Potential: N/A

12.4 Mobility in Soil: N/A

12.5 Other Adverse Effects: N/A

Section 13: DIPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Disposal Method: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Other disposal recommendations: Dispose of contaminated packaging as unused product.
Section 14: TRANSPORTATION INFORMATION

14.1 DOT (US): Not dangerous goods
14.2 IMDG: Not dangerous goods
14.3 IATA: Not dangerous goods

Section 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations Specific for the Chemical:

SARA Title III:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Section 302</th>
<th>Section 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxalic Acid</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

STATE REGULATIONS:

Massachusetts Right to Know Components: Oxalic Acid
Pennsylvania Right to Know Components: Oxalic Acid
New Jersey Right to Know Components: Oxalic Acid
California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

HMIS Rating:

Health: 2
Chronic Health: *
Flammability: 0
Physical: 0

NFPA- National Fire Protection Association:

Health: 3
Fire: 1
Reactivity: 0

Hazard Rating:

0 = minimal 1 = slight 2 = moderate 3 = severe 4 = extreme

Source Agency Carcinogen Classifications:

OSHA (O) No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH (G) No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

IARC (I) No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP (N) No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
**SAFETY DATA SHEET**

**Section 16: OTHER INFORMATION**

<table>
<thead>
<tr>
<th><strong>Date of Preparation:</strong></th>
<th>July 1, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version:</strong></td>
<td>1.0</td>
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<tr>
<td><strong>Revision Date:</strong></td>
<td>July 1, 2015</td>
</tr>
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<td><strong>Disclaimer:</strong></td>
<td>We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.</td>
</tr>
<tr>
<td><strong>Prepared by:</strong></td>
<td>Empire Blended Products Inc.</td>
</tr>
<tr>
<td><strong>Prepared for:</strong></td>
<td>Empire Blended Products Inc.</td>
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