1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers
   - **Product name:** Slime & Grime
   - **Product code:** 948XX

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Oxalic acid is best known as an agent in wood bleaching. Oxalic acid also is a popular cleaning agent. Oxalic acid can be used to remove rust stains from kitchen counter tops, plumbing pipes and even fabric. It's also used in the treatment of wastewater, because oxalic acid helps remove calcium from water. It even can be used as a reducing agent for photography.

1.3 Details of the supplier of the safety data sheet
   - **Company:** Star brite Inc.
   - **Address:** 4041 SW 47th Ave.
   - **City:** Fort Lauderdale
   - **State/Province:** FL
   - **Postal Code:** 33314
   - **Phone:** (954) 587-6280
   - **Fax:** (954) 587-2813

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
   - **Classification according to Regulation (EC) No 1272/2008**
     - Acute toxicity, Oral (Category 4)
     - Acute toxicity, Dermal (Category 4)

2.2 Label elements
   - **Pictogram:**
   - **Signal word:** Warning
   - **Hazard statement(s):**
     - H302 + H312 Harmful if swallowed or in contact with skin
   - **Precautionary statement(s):**
     - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
     - P310 Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Synonyms
   - Ethanedioic acid
**SLIME & GRIME**

Formula : \( \text{C}_2\text{H}_2\text{O}_4 \cdot 2\text{H}_2\text{O} \)
Molecular Weight : 126.07 g/mol

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxalic acid dihydrate</td>
<td>( \geq 99.6% )</td>
</tr>
<tr>
<td>CAS-No. 6153-56-6</td>
<td></td>
</tr>
<tr>
<td>EC-No. 205-634-3</td>
<td></td>
</tr>
</tbody>
</table>

4. **FIRST AID MEASURES**
4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

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

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. 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
burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. **FIRE-FIGHTING MEASURES**
5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

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.
6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Hygroscopic.

7.3 Specific end uses
no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxalic acid dihydrate</td>
<td>6153-56-6</td>
<td>STEL</td>
<td>2 mg/m³</td>
<td>UK. EH40 WEL - Workplace Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>UK. EH40 WEL - Workplace Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Europe. Indicative occupational exposure limit values</td>
</tr>
</tbody>
</table>

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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 EN 166(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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**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).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance</td>
<td>Form: crystalline</td>
</tr>
<tr>
<td></td>
<td>Colour: white</td>
</tr>
<tr>
<td>b) Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>c) Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>d) pH</td>
<td>1 at 108g/L at 25 °C.sol.</td>
</tr>
<tr>
<td>e) Melting point/freezing point</td>
<td>Melting point/range: 95.42°C</td>
</tr>
<tr>
<td>f) Initial boiling point and</td>
<td></td>
</tr>
<tr>
<td>boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>g) Flashpoint</td>
<td>no data available</td>
</tr>
<tr>
<td>h) Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>i) Flammability(solid, gas)</td>
<td>non flammable</td>
</tr>
<tr>
<td>j) Upper/lower flammability or</td>
<td></td>
</tr>
<tr>
<td>explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>k) Vapour pressure</td>
<td>&lt; 0.01 hPa at 20 °C</td>
</tr>
<tr>
<td>l) Vapour density (air = 1)</td>
<td>no data available</td>
</tr>
<tr>
<td>m) Relative density</td>
<td>ca. 1900 kg/m³</td>
</tr>
<tr>
<td>n) Water solubility</td>
<td>ca.108 g/L at 25 °C</td>
</tr>
<tr>
<td>o) Partition coefficient:n-octanol/water</td>
<td>log Pow: -0.81</td>
</tr>
<tr>
<td>p) Autoignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>q) Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>r) Viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>s) Explosive properties</td>
<td>no data available</td>
</tr>
<tr>
<td>t) Oxidizing properties</td>
<td>no data available</td>
</tr>
</tbody>
</table>

#### 9.2 Other safety information:

- Bulk density: 0.90 g/l

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity
10.2 Chemical stability
no data available

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Avoid moisture.

10.5 Incompatible materials
Bases, Metals, Acid chlorides, Alkali metals

10.6 Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute toxicity
Skin corrosion/irritation
Skin - rabbit - Mild skin irritation
Serious eye damage/eye irritation
Eyes - rabbit - Severe eye irritation
Respiratory or skin sensitization
no data available

Germ cell mutagenicity
Genotoxicity in vitro - Not mutagenic in Ames Test.
Histidine reversion (Ames)
Carcinogenicity
IARC: 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.

Reproductive toxicity
Possible risk of congenital malformation in the fetus.
Specific target organ toxicity - single exposure
no data available
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available

Potential health effects
Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion Harmful if swallowed. Causes burns.

Skin Harmful if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Signs and Symptoms of Exposure
burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of
the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Toxicity to fish: LC50 - Leuciscus idus (Golden orfe) - 160 mg/l - 48 h
- Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 137 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -   IMDG: -   DOT: -   IATA: -

14.2 UN proper shipping name

ADR/RID: not dangerous goods
IMDG: not dangerous goods
IATA: not dangerous goods
DOT: not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -   IMDG: -   DOT: -   IATA: -

14.4 Packaging group

ADR/RID: -   IMDG: -   DOT: -   IATA: -

14.5 Environmental hazards

ADR/RID: no   IMDG Marine pollutant: no   DOT: no   IATA: no
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

16. OTHER INFORMATION

Further information
All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. This information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide.

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End of SDS