

**SAFETY DATA SHEET  
FOR  
THORN SMITH LABORATORIES**

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**SECTION 1 - IDENTIFICATION**

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Trade Name: **Soluble Oxalate** for  $\text{Na}_2\text{C}_2\text{O}_4$   
Catalog Number: 80-1600  
Product Description: Analyzed Quantitative Unknowns  
Manufacturer: Auric Enterprises, Inc.  
d/b/a Thorn Smith Laboratories  
Address: 7755 Narrow Gauge Road  
Beulah, MI 49617  
Phone Number: 231-882-4672  
SDS Number: TSL-027

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**SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS**

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Sodium Oxalate  
Formula:  $\text{NaOCOCOONa}$   
Synonyms: Oxalic Acid, Disodium Salt; Ethanedioic Acid, Disodium Salt  
CAS No.: 62-76-0  
% by Weight: < 35

Sodium Sulfate  
Formula:  $\text{Na}_2\text{SO}_4$   
Synonym: Sulfuric Acid, Disodium Salt, Disodium Sulfate  
CAS No.: 7757-82-6  
% by Weight: < 65

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**SECTION 3 – HAZARDS IDENTIFICATION**

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**Signal Word**

Warning

**Classification ( $\text{NaOCOCOONa}$ ):**

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Serious Eye Damage/Irritation	Category 2

**Hazard Statements:**

Harmful if swallowed;  $\text{NaOCOCOONa}$

Harmful in contact with skin;  $\text{NaOCOCOONa}$

Causes eye;  $\text{NaOCOCOONa}$ ;  $\text{Na}_2\text{SO}_4$ . Causes skin and respiratory tract irritation;  $\text{Na}_2\text{SO}_4$ .

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## SECTION 4 – FIRST AID MEASURES

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**Eye Contact:** Do not rub eye(s). Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Obtain medical attention.

**Skin Contact:** Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Obtain medical attention.

**Inhalation:** If a person breathes in large amounts, move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

**Ingestion:** Do not induce vomiting. Obtain medical attention.

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## SECTION 5 – FIRE FIGHTING MEASURES

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**Flammability:** Non-Flammable

**Flash Points:** Not Applicable

**Auto-Iginition:** Not Applicable

**Flammable Limits:** N/A

**Extinguishing Media:** Use extinguishing media appropriate to the surrounding fire.

**Fire Fighting Procedure:** Firefighters should wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact with skin and eyes.

**Fire/Explosion Hazards:** NaOCOCOONa; Toxic gases produced: Sodium oxides, carbon monoxide, carbon dioxide. Na<sub>2</sub>SO<sub>4</sub>; Sulfur oxides; sodium oxides.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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**Spill or Leak Procedures:** Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Sweep or vacuum up spillage and collect in a suitable container for disposal.

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## SECTION 7 – HANDLING AND STORAGE

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**Storage Temperatures:** Store in a cool, dry, well-ventilated place.

**Shelf Life:** Unlimited in tightly closed container.

**Precautions to be taken in handling and storage:** Store in accordance with all local, state, and federal environmental regulations.

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## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Respiratory Protection (Specify Type):** None where adequate ventilation conditions exist. If airborne Concentration is high, use an appropriate respirator or dust mask.

**Protective Gloves:** Wear protective gloves.

**Eye Protection:** Wear chemical safety glasses.

**Ventilation To Be Used:** Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

☒ Local Exhaust      ☒ Mechanical (General)      ☐ Special

☐ Other (Specify)

**Other Protective Clothing and Equipment:** Wear clean body-covering clothing. Emergency showers and eye wash stations should be available.

**Hygienic Work Practices:** Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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**Physical Form:** Powder (NaOCOCOONa); Solid (Na<sub>2</sub>SO<sub>4</sub>).  
**Color:** White  
**Odor:** Odorless  
**Molecular Weight:** 134(NaOCOCOONa); 142.04 (Na<sub>2</sub>SO<sub>4</sub>).  
**Boiling Point:** N/A  
**Melting Point:** 250 - 270°C (482 - 518°F) (NaOCOCOONa);  
884 - 888°C (1623.2 – 1630.4°F) (Na<sub>2</sub>SO<sub>4</sub>).  
**Solubility in Water:** Soluble in water.  
**Water Reactive:** No  
**Vapor Density (Air-1):** N/A  
**Evaporation Rate ( -1):** N/A

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## SECTION 10 – STABILITY AND REACTIVITY

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**STABILITY:** ☒ Stable ☐ Unstable  
Hygroscopic. Stable under normal conditions.  
**Conditions to Avoid:** Humidity  
**Incompatibility (Materials to avoid):** Strong oxidizing agents, strong acids (NaOCOCOONa); Strong oxidizing agents (Na<sub>2</sub>SO<sub>4</sub>).  
**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Sodium oxides (NaOCOCOONa); Sulfur oxides, Sodium oxides (Na<sub>2</sub>SO<sub>4</sub>).  
**HAZARDOUS POLYMERIZATION:** ☐ May Occur ☒ Will Not Occur

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## SECTION 11 – TOXICOLOGICAL INFORMATION

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**Routes of Exposure:** Eye Contact. Ingestion. Inhalation. Skin contact.  
**Toxicity Data:** 5094 mg/kg; LD50 (oral-mouse) - (NaOCOCOONa)  
**Chronic Toxic Effects:** (NaOCOCOONa): May cause damage to the following organs: kidneys, mucous membranes, central nervous system. Repeated or prolonged inhalation of dust may result in respiratory tract inflammation and weight loss. May cause dermatitis.  
**Acute Toxic Effects:** (NaOCOCOONa): Causes skin irritation with possible skin lesions and burns. May be harmful if absorbed through the skin. Causes eye irritation with possible burns. May cause corneal injury. May be harmful if inhaled. Causes respiratory tract and mucous membrane irritation, mucosal ulceration, inflammation of the larynx and bronchi, chemical pneumonitis, pulmonary edema, coughing, headache, anxiety, nausea, vomiting and weakness. May be harmful if swallowed. Ingestion of significant amounts will affect the urinary system, cardiovascular system, behavior/central nervous system. It produces digestive tract irritation and produces immediate corrosive effects on the mucous membrane lining the digestive tract (oropharynx and perhaps the esophagus). Symptoms may include severe epigastric pain, vomiting with blood (hematemesis), and hemorrhagic gastritis. Other symptoms may include central nervous system depression (tetany, seizures, muscle twitching, convulsions, drowsiness, stupor, coma), cardiovascular collapse, hypotension, dysrhythmia, kidney damage (oliguria, anuria and hematuria). (Na<sub>2</sub>SO<sub>4</sub>): Causes serious eye irritation. Causes skin irritation. Causes respiratory irritation.  
**Extremely Hazardous Substance:** No  
**CERCLA Hazardous Substance:** No  
**SARA 313 Toxic Chemicals:** No  
**IARC:** Not Listed  
**NTP:** Not Listed  
**ACGIH:** Not Listed  
**OSHA:** Not Listed

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## ***SECTION 12 – ECOLOGICAL INFORMATION***

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Do not empty into drains. Do not flush into surface water or sanitary sewer system.

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## ***SECTION 13 – DISPOSAL CONSIDERATIONS***

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Dispose of in accordance with all applicable local, state and federal environmental regulations.

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## ***SECTION 14 – TRANSPORTATION INFORMATION***

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### Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s.

### International (T.M.O.)

Proper Shipping Name: Chemicals, n.o.s.

### Air (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s.

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## ***SECTION 15 – REGULATORY INFORMATION***

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**Canada:** Sodium oxalate has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.



WHMIS Hazard Class

D2B Toxic Materials

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## ***SECTION 16 – OTHER INFORMATION***

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### **SARA TITLE III HAZARD CATEGORIES AND LISTS**

Acute: Yes    Chronic: No    Flammability: No    Pressure: No  
Reactivity: No

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