SAFETY DATA SHEET
FOR
THORN SMITH LABORATORIES

SECTION 1 - IDENTIFICATION

Trade Name:	**Soluble Oxalate** for $Na_2C_2O_4$
Catalog Number:	80-1600 (Vials) / 80-1601 (100g)
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

SECTION 2 – HAZARDS IDENTIFICATION

Classification of Substance or Mixture: Not a hazardous substance or mixture as packaged in 10g student vials or 100g containers.

GHS Label Elements, including precautionary statements: Not a hazardous substance or mixture as packaged in 10g student vials or 100g containers.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

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SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Sodium Oxalate

Formula:	NaOCOCOONa
Synonyms:	Oxalic Acid, Disodium Salt; Ethanedioic Acid, Disodium Salt
CAS No.:	62-76-0
% by Weight:	< 35

Sodium Sulfate

Formula:	Na_2SO_4
Synonym:	Sulfuric Acid, Disodium Salt, Disodium Sulfate
CAS No.:	7757-82-6
% by Weight:	< 65

SECTION 4 – FIRST AID MEASURES

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.

SECTION 5 – FIRE FIGHTING MEASURES

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_2SO_4; Sulfur oxides; sodium oxides.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 – HANDLING AND STORAGE

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.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
__X__ Local Exhaust __X__ Mechanical (General) _____ Special
_____ Other (Specify)
Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers and eye was 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Powder (NaOCOCOONa); Solid (Na_2SO_4).
Color: White
Odor: Odorless
Molecular Weight: 134(NaOCOCOONa); 142.04 (Na_2SO_4).
Boiling Point: N/A
Melting Point: 250 - 270°C (482 - 518°F) (NaOCOCOONa);
884 - 888°C (1623.2 – 1630.4°F) (Na_2SO_4).
Solubility in Water: Soluble in water.
Water Reactive: No

Vapor Density (Air-1): N/A
Evaporation Rate (-1): N/A

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: __X__ 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_2SO_4).
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sodium oxides (NaOCOCOONa); Sulfur oxides, Sodium oxides (Na_2SO_4).

HAZARDOUS POLYMERIZATION: _____ May Occur __X__ Will Not Occur

SECTION 11 – TOXICOLOGICAL INFORMATION

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_2SO_4): 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

SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORTATION INFORMATION

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.

SECTION 15 – REGULATORY INFORMATION

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

SECTION 16 – OTHER INFORMATION

SARA TITLE III HAZARD CATEGORIES AND LISTS

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

Date Prepared: December 27, 1993
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