

**MATERIAL SAFETY DATA SHEET  
FOR  
THORN SMITH LABORATORIES  
STUDENT REFERENCE STANDARDS AND REAGENT CHEMICALS**

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Sodium Oxalate  
Catalog Number 81-1090

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Manufacturer: Auric Enterprises, Inc.  
d/b/a Thorn Smith Laboratories  
Address: 7755 Narrow Gauge Road  
Beulah, MI 49617  
Phone Number: 231-882-4672  
MSDS Number: TSL-102  
Date Prepared: December 14, 1988  
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**SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

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COMPONENTS - Chemical Name & Common Names  
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

Sodium Oxalate

Common Synonyms: Oxalic Acid, Sodium Salt  
Chemical Family: Organic Sodium Salts  
Formula:  $\text{Na}_2\text{C}_2\text{O}_4$   
CAS No.: 62-76-0  
OSHA PEL: N/E  
ACGIH TLV: N/E  
OTHER LIMITS: N/A

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**SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS**

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Boiling Point: N/A  
Specific Gravity ( $\text{H}_2\text{O}=1$ ): 2.34 ( $\text{Na}_2\text{C}_2\text{O}_4$ )  
Vapor Pressure (mm Hg and Temperature): N/A  
Melting Point:  $250^\circ\text{C}$  (decomposes)  
Density (Air=1): 2.3  
Solubility in Water: Sparingly soluble in water.  
Appearance and Odor: White powder. Odorless.

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### SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

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Flash Point and Method Used: N/A

Auto-Ignition Temperature: N/A

Flammability Limits in Air (% by volume): N/A

LEL: N/A UEL: N/A

Extinguisher Media: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Will decompose in general fire giving off carbon monoxide and carbon dioxide.

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### SECTION 4 - REACTIVITY HAZARD DATA

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STABILITY:  Stable  Unstable

Conditions to Avoid: None documented.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION:  May Occur  Will Not Occur

No reported hazardous reactivity.

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### SECTION 5 - HEALTH HAZARD DATA

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PRIMARY ROUTES OF ENTRY:

Inhalation  Ingestion  Skin Contact  Eye Contact  Not Hazardous

CARCINOGEN LISTED IN:

NTP  OSHA  IARC Monograph  Not Listed

TOXICITY: N/A

HEALTH HAZARDS - Acute:

May be irritating to eyes and mucous membranes. Toxic by ingestion, inhalation or injection. Not absorbed through skin. Symptoms of poisoning include: nervousness, cramps and CNS depression. No LD/TD information found for normal routes of occupational exposure. Death can occur in minutes. No evidence of carcinogenicity.

HEALTH HAZARDS - Chronic: Kidney damage.

Signs and Symptoms of Exposure: No information found.

Medical Conditions Generally Aggravated by Exposure: None identified.

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation, and support if necessary.

Inhalation: If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: CALL A PHYSICIAN. If swallowed, and the person is conscious, give water or milk, then induce vomiting.

Skin Contact: Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes, lifting upper and lower

eyelids occasionally.

## SARA/TITLE III HAZARD CATEGORIES AND LISTS

Acute: Yes    Chronic: Yes    Flammability: No    Pressure: No    Reactivity: No  
Extremely Hazardous Substance:    No  
CERCLA Hazardous Substance:    No  
SARA 313 Toxic Chemicals: No    Generic class removed from CFR 7-9-91.  
TSCA Inventory:    Yes

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## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

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Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.  
Protective Gloves:    Wear rubber gloves.  
Eye Protection:    Wear chemical safety goggles.  
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.  
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 7 - PRECAUTIONS FOR SAFE HANDLING & LEAK/USE PROCEDURES

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Steps to be taken if material is spilled or released:    Wear self-contained breathing apparatus and full protective clothing. Sweep spill carefully without raising dust. Wash area well with water.  
Waste Disposal Methods:    Dispose in accordance with all applicable local, state, federal environmental regulations.  
Precautions to be taken in handling and storage: Keep in a tightly closed container. Suitable for any general chemical storage area. Store in accordance with all applicable local, state, and federal environmental regulations.  
Other precautions and/or special hazards:    No information found.  
NFPA Rating: Health: **3** Flammability: **0** Reactivity: **0**.  
HMIS Rating: No information available.

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## SECTION 8 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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

Proper Shipping Name:      Chemical, n.o.s.      (Non-regulated)

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

Proper Shipping Name:      Chemical, n.o.s.      (Non-regulated)

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