

**MATERIAL SAFETY DATA SHEET
FOR
THORN SMITH LABORATORIES
ANALYZED QUANTITATIVE UNKNOWNNS**

Soluble Oxalate for Na₂C₂O₄
Catalog Number 80-1600

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-027
Date Prepared: December 27, 1993
Date Updated: June 23, 2009

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

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

Sodium Oxalate

Formula: NaOCOCOONa
Common Synonyms: Oxalic Acid, Disodium Salt; Ethanedioic Acid, Disodium Salt
Chemical Family: Organic Sodium Salts
CAS No.: 62-76-0
OSHA PEL: N/E
ACGIH TLV: N/E
OTHER LIMITS: N/A

Sodium Sulfate

Formula: Na₂SO₄
Common Synonyms: Sulfuric Acid, Disodium Salt, Disodium sulfate.
Chemical Family: Inorganic Sodium Compounds
CAS No.: 7757-82-6
OSHA PEL: According to our sources, exposure threshold levels have not been established
(N/E).
ACGIH TLV: N/E
OTHER LIMITS: N/A

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A
Specific Gravity (H₂O=1): 2.34 (NaOCOCOONa); 2.68 (Na₂SO₄)
Vapor Pressure (mm Hg and Temperature): N/A

Melting Point: 260° C (500° F) (NaOCOCOONa); 884° C (1623° F) (Na₂SO₄)
Vapor Density (Air=1): N/A
Evaporation Rate (-1): N/A
Solubility in Water: Moderate (1-10%) (NaOCOCOONa); Appreciable (More than 10%) (Na₂SO₄)
Water Reactive: No
Appearance and Odor: White crystalline powder (NaOCOCOONa); White crystals or powder (Na₂SO₄).
Odorless.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

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.
Unusual Fire and Explosion Hazards: Decomposes at melting point (NaOCOCOONa); Toxic gases produced: sulfur dioxide (Na₂SO₄); carbon monoxide carbon dioxide. (NaOCOCOONa).

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable Unstable
Conditions to Avoid: Moisture (Na₂SO₄). Stable under ordinary conditions of use and storage.
Incompatibility (Materials to Avoid): Aluminum, magnesium, mineral acids, strong acids, strong bases.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide (NaOCOCOONa); Oxides of sulfur (Na₂SO₄).
HAZARDOUS POLYMERIZATION: May Occur Will Not Occur

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:
 Inhalation Ingestion Skin Contact Eye Contact Not Hazardous
CARCINOGEN LISTED IN:
 NTP OSHA IARC Monograph Not Listed
TOXICITY: Sodium Oxalate: No information available.
Sodium Sulfate: LD50 (oral-mouse) 5989 mg/kg.
HEALTH HAZARDS - Acute:
Inhalation: May cause irritation to upper respiratory tract.
Ingestion: Is harmful and may be fatal, nausea, vomiting, unconsciousness, irritation and burns to mouth and stomach (NaOCOCOONa); gastrointestinal irritation (Na₂SO₄).
Skin Contact: Severe irritation or burns (NaOCOCOONa); irritation (Na₂SO₄).
Eye Contact: Severe irritation or burns (NaOCOCOONa); irritation (Na₂SO₄).
HEALTH HAZARDS - Chronic: Kidney damage (NaOCOCOONa); none identified (Na₂SO₄).
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 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. Get medical attention.

Ingestion: CALL A PHYSICIAN. If swallowed, and the person is conscious, give lime water, large Amount of powdered chalk in water, or milk. Then induce vomiting (NaOCOCOONa).

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. Get medical attention.

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 Contains Sodium Sulfate. Generic class removed from CFR 7-9-91.

TSCA Inventory: No

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

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 meet TLV requirements.

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.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING & LEAK/USE PROCEDURES

Steps to be taken if material is spilled or released: Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Waste Disposal Methods: Dispose in accordance with all applicable local, state, federal environmental regulations.

Precautions to be taken in handling and storage: Do not get into eyes, on skin, or clothing. Avoid breathing dust. Keep in a tightly closed container. Use with adequate ventilation. Wash thoroughly after

handling. Store in corrosion proof area (NaOCOCOONa).
Other precautions and/or special hazards: Sodium Sulfate is hygroscopic.

NFPA Rating: Health: **3** Flammability: **0** Reactivity: **0**.

HMIS Rating: No information available.

SECTION 8 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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)

AIR (I.C.A.O.)

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

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