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MATERIAL SAFETY DATA SHEET

MSDS No.: SS0720
Revision Date: December 17, 2008
Approved by: James A. Bertsch

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Section 1 Chemical Product and Company Information

Product	SODIUM OXALATE, MONOHYDRATE
Synonyms	Ethanedioic Acid Disodium Salt

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

DANGER! POISON ☠ CORROSIVE!

CAN BE FATAL IF SWALLOWED OR INHALED. MAY CAUSE BURNS TO RESPIRATORY TRACT AND SEVERE IRRITATION TO SKIN AND EYES. MAY AFFECT KIDNEYS. Do not get in eyes, on skin or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Target organs: Respiratory and central nervous systems, liver, kidneys, eyes, skin.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	3
Fire	0
Reactivity	1
Contact	3

HMIS *

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Sodium oxalate, monohydrate	62-76-0	100%	None established.

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Fires involving a small amount of combustibles may be smothered by dry chemical.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Flash Point: Non-flammable.

Autoignition temperature: N/A

Explosion Limits: Lower: N/A **Upper:** N/A

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

NFPA

0 = Minimal
1 = Slight
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4 = Severe



None listed.

Section 7 Handling & Storage CORROSIVE STORAGE CODE WHITE

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Solid.

Appearance: White, crystalline powder.

Odor: No odor.

pH: N/A

Vapor pressure (mm Hg): N/A

Vapor Density (Air = 1): N/A

Evaporation rate (Butyl acetate = 1): N/A

Viscosity: N/A

Boiling point: N/A

Freezing / Melting point: 250-270°C (482-518°F)

Decomposition temperature: N/A

Solubility: 3.7 g/100ml water @ 20°C (68°F)

Specific gravity (H₂O = 1): 2.34

Percent volatile (%): 0

Molecular formula: (COONa)₂

Molecular weight: 134.00

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat.

Incompatibilities with other materials: Strong oxidizers, strong acids.

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological Information

Effects of overexposure: Sodium oxalate is very poisonous by ingestion and inhalation. Inhalation of dust is corrosive to mucous membranes. Oxalates can be absorbed through the lungs. Symptoms of poisoning include cramps, central nervous system depression. Ingestion of this material is corrosive to the mucosa and severe gastroenteritis can occur with pain, vomiting, etc. Sharp reduction of serum calcium can cause disfunction of the brain. Calcium oxalates may be deposited in the kidneys. Mean lethal dose for oxalates in adults is estimated at 15-30 grams with death within a few hours or even minutes. Contact with skin may produce severe skin irritation with burning and redness. Contact with eyes may cause severe irritation and pain. May cause burns.

No LD50/LC50 information found relating to normal routes of occupational exposure.

Section 12 Ecological Information

Do not flush into surface water or sanitary sewer system.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: UN2928

Shipping name: Toxic solids, corrosive, organic, n.o.s. (Sodium oxalate)

Hazard class: 6.1, (8)

Packing group: II

Exceptions: Ltd Qty ≤ 0.5 Kg (1.1 lb)

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (200-550-3)

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.