SDS #: 571.00 **Revision Date:** December 18, 2013

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Oxalic Acid Dihydrate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral and dermal(Category 4). Harmful if swallowed or in contact with skin (H302 +H312). Do not eat, drink or smoke when using this product (P270).

Signal Word

DANGER

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe dust or fumes (P260).

Pictograms			
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SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Oxalic acid dihydrate	6153-56-6	$H_2C_2O_4{\cdot}2H_2O$	126.07	
Synonym: Ethandionic acid				

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing (P305+P351+P338). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363). **If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES					
Combustible solid.	NFPA CODE				
When heated to decomposition, may emit toxic fumes.	H-3				
In case of fire: Use a tri-class dry chemical fire extinguisher.	F-1				
	R-0				

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wear complete PPE. Do not allow solid to become airborne. Ventilate area. Wipe up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids. Store in a cool dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Exposure guidelines: (as oxalic acid) PEL/TLV 1 mg/m³ (OSHA, ACGIH), STEL 2 mg/m³ (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless to white crystalline solid. Odorless. Soluble: Water and many common organic solvents. Melting point: 101.5 °C, sublimes @ 157 °C Specific gravity: 1.653

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with bases, acid chlorides, alkali metals, corrodes steel. Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: **may be FATAL if ingested**, severe skin and eye burns.

Chronic effects: Damaging to many organs and organ systems Target organs: Kidneys, nervous system, skin, eyes, brain, heart ORL-RAT LD_{50} : 375 mg/kg (Merck) IHL-RAT LC_{50} : N.A. SKN-RBT LD_{50} : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

LC₅₀ Bluegill: 4000 mg/l 24 hours

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #24a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Corrosive Solids, Toxic, N.O.S. Hazard class: 8. UN number: UN2923.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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