

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Oxalic Acid Dihydrate

Signal Word  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-10084

Pictograms

### 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).



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



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Oxalic acid dihydrate	6153-56-6	H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> •2H <sub>2</sub> O	126.07	
Synonyms: 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 so. 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 hands thoroughly after handling (P264).  
Exposure guidelines: (as oxalic acid) PEL/TLV 1 mg/m<sup>3</sup> (OSHA, ACGIH), STEL 2 mg/m<sup>3</sup> (ACGIH)

---

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

---

Colorless to white crystalline solid. Odorless.	Melting point: 101.5 °C, sublimates @ 157 °C
Soluble: Water and many common organic solvents.	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.	ORL-RAT LD <sub>50</sub> : 375 mg/kg (Merck)
Chronic effects: Damaging to many organs and organ systems	IHL-RAT LC <sub>50</sub> : N.A.
Target organs: Kidneys, nervous system, skin, eyes, brain, heart	SKN-RBT LD <sub>50</sub> : N.A.

---

## **SECTION 12 — ECOLOGICAL INFORMATION**

---

LC<sub>50</sub> 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.

---

## **SECTION 15 — REGULATORY INFORMATION**

---

Not listed.

---

## **SECTION 16 — OTHER INFORMATION**

---

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

N/A = Not applicable

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

**Revision Date:** March 21, 2014

---