

# Safety Data Sheet

## Oxalic Acid, Dihydrate

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1 Product Description

**Product Name:** Oxalic Acid, Dihydrate  
**Recommended Use:** Science education applications  
**Synonyms:** Ethanedioic Acid  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage.

**GHS Classification:**

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity - Dermal Category 4, Acute Toxicity - Oral Category 4

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Oxalic Acid, Dihydrate	6153-56-6	100

### Section 4 First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**Skin Contact:** IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO<sub>2</sub> or appropriate foam.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products. Forms very sensitive explosive metallic compounds.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

### Section 6 Spill or Leak Procedures

# Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## Section 7 Handling and Storage

**Handling:** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust. Avoid contact with skin and eyes. Retained residue may make empty containers hazardous.

**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

## Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Oxalic Acid, Dihydrate	1 mg/m3 TWA	2 mg/m3 STEL	1 mg/m3 TWA	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** No information available

## Section 9 Physical Data

<b>Formula:</b> C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> * 2H <sub>2</sub> O	<b>Vapor Pressure:</b> N/A
<b>Molecular Weight:</b> 126.07	<b>Evaporation Rate (BuAc=1):</b> N/A
<b>Appearance:</b> White Crystalline Solid	<b>Vapor Density (Air=1):</b> N/A
<b>Odor:</b> No data available	<b>Specific Gravity:</b> 1.90 at 17 C
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> 1 at 126.1 g/l at 25 °C	<b>Log Pow (calculated):</b> -0.81
<b>Melting Point:</b> No data available	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> 149 - 160 C	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> N/A	<b>Percent Volatile by Volume:</b> N/A

## Section 10 Reactivity Data

**Reactivity:** No data available

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Bases, Alkali and Alkaline Metals Metals acid chlorides,

**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Routes of Entry** Inhalation and ingestion.

**Symptoms (Acute):** Impaired Kidney Function, Respiratory disorders, , Eye disorders

**Delayed Effects:** No data available

### Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
No data available	6153-56-6	Not determined	Not determined	Not determined

# Safety Data Sheet

**Carcinogenicity:****Chemical Name**

No data available

**CAS Number**

6153-56-6

**IARC**

Not listed

**NTP**

Not listed

**OSHA**

Not listed

**Chronic Effects:****Mutagenicity:**

No evidence of a mutagenic effect.

**Teratogenicity:**

No evidence of a teratogenic effect (birth defect).

**Sensitization:**

No evidence of a sensitization effect.

**Reproductive:**

No evidence of negative reproductive effects.

**Target Organ Effects:****Acute:**

See Section 2

**Chronic:**

Reproductive data cited., Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

### Ecological Data

**Overview:**

This material is not expected to be harmful to the ecology.

**Mobility:**

No data

**Persistence:**

No data

**Bioaccumulation:**

No data

**Degradability:**

No data

**Other Adverse Effects:**

No data

**Chemical Name**

N/A

**CAS Number**

6153-56-6

**Eco Toxicity**

## Section 13

### Disposal Information

**Disposal Methods:**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

**Waste Disposal Code(s):**

Not Determined

## Section 14

### Transport Information

**Ground - DOT Proper Shipping Name:**

UN number: 3261 Class: 8 Packing group: III Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Oxalic acid dihydrate) Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

**Air - IATA Proper Shipping Name:**

UN number: 3261 Class: 8 Packing group: III EMS-No: F-A, S-B

## Section 15

### Regulatory Information

**TSCA Status:**

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

**Chemical Name****CAS  
Number****§ 313 Name****§ 304 RQ****CERCLA RQ****§ 302 TPQ****CAA 112(2)  
TQ**

No data available

6153-56-6

No

No

No

No

No

## Section 16

### Additional Information

**Revised: 09/09/2015****Replaces: 09/03/2014****Printed: 10-29-2015**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Glossary**

# Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health