

# OXALIC ACID 5%, AQUEOUS

## Section 1 - Chemical Product and Company Identification

**SDS Name:** Oxalic 5% Aqueous

**Catalog Numbers:** F-379, F-390-9, F-395-6, K-658-3, SO-390 & MX-105-2

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

## Section 2 - Hazards Identification

### GHS Classifications HEALTH HAZARDS

H302-Acute Oral Toxicity: 4

H315-Skin Corrosion/Skin Irritation: 2

H320-Eye damage/Irritation: 2B

H373-Specific Target Organ Toxicity: 2

H361-Reproductive Toxicity: 2

#### Pictograms:



Warning! Harmful if swallowed.  
Causes skin irritation.



Warning! Causes eye irritation.



Danger! May cause damage to kidneys, the  
nervous system, mucous membranes,  
heart, brain, skin, eyes through  
prolonged or repeated exposure.

Warning! Suspected of damaging fertility or the  
unborn child.

## Precautionary Statement Prevention

**P201** Obtain special instructions before use.

**P202** Do not handle until all safety precautions have been read and understood.

**P260** Do not breathe fume/gas/mist/vapors.

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P281** Use personal protective equipment as required.

**P301 + P312** If swallowed, call a physician if you feel unwell.

**P302 + P352** If on skin, wash with plenty of water.

**P305 + P351 + P338** IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P308 + P313** If exposed or concerned, get medical advice/attention.

**P314** Get medical advice/attention if you feel unwell.

**P330** Rinse mouth.

**P332 + P313** If skin irritation occurs, get medical advice/attention.

**P337 + P313** If eye irritation persists, get medical advice/attention.

**P362** Take off contaminated clothing and wash before reuse.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
6153-56-6	Oxalic Acid	5 w/v
7732-18-5	Water	balance

## Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

## Section 5 - Fire Fighting Measures

**NFPA** HEALTH 1 FLAMMABILITY 0 REACTIVITY 0

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature.

Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Mechanical exhaust

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear

**pH:** 0.77-0.97

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** N/A

**Freezing/Melting Point:** N/A

**Decomposition Temperature:** N/A

**Solubility:** Soluble.

**Specific Gravity/Density:** N/A

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Hazardous Decomposition Products:** Will not occur.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with other materials:** Has not been reported.

Section 11 - Toxicological Information

**RTECS#:**

**CAS# 6153-56-6**

**Routes of Entry:** Absorbed through the skin. Dermal contact. Inhalation. Ingestion.

**LD50/LC50:**

**Dog:** 1000 mg/kg

**Carcinogenicity:**

CAS# 6153-56-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Chronic Effects on Humans:**

May cause damage to the following organs: kidneys, the nervous system, mucous membranes, heart, brain, skin, eyes.

**Other Toxic Effects on Humans:**

Skin contact (irritant), very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (permeator), of eye contact (corrosive). Slightly hazardous in case of skin contact (corrosive).

Section 12 - Ecological Information

**Ecotoxicity:**

**CAS# 6153-56-6.** This material is expected to be toxic to aquatic life. The LC50 values for fish: Bluegill/Sunfish: LC50 = 4000 mg/L; 24 Hr.; Static Conditions Fish: Mosquito Fish: LC50 = 1350 mg/L; 24 Hr.; Static Conditions No data available.

**Environmental: CAS# 6153-56-6.** An estimated Koc value of 5 for oxalic acid indicates high mobility in soil and oxalic acid has been detected in groundwater. Several screening studies and grab sample tests indicate that under aerobic and anaerobic conditions, oxalic acid will readily biodegrade in aquatic ecosystems. Based on an experimental Henry's Law constant of  $1.4 \times 10^{-10}$  atm-m<sup>3</sup>/mole at 25°C, oxalic acid is expected to be essentially nonvolatile from water. Adsorption to sediment and bioconcentration in aquatic organisms may not be important fate process for oxalic acid.

**Physical: CAS# 6153-56-6.** Oxalic acid in the ambient atmosphere may react slowly with OH radicals, but it is removed rapidly by photolysis; the daytime persistence of oxalic acid is not expected to exceed a few hours. Based on its high water solubility, removal from air via wet deposition is likely to occur. Oxalic acid may also be removed from air via dry deposition with 11% of the total deposition being dry deposition.

**Other: CAS# 6153-56-6.** Based on an average experimental water solubility of 220,000 mg/L at 25°C and a regression derived equation, the BCF for oxalic acid can be estimated to be approximately 0.6 and therefore should not be expected to bioconcentrate in aquatic organisms.

Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

**DOT**

Non-Regulated

## Section 15 - Regulatory Information

### **Risk phrases:**

**R21/22** Harmful in contact with skin and if swallowed

**R36** Irritating to eyes

**R38** Irritating to skin

**R48/21/22** Harmful: danger serious damage to health by prolonged exposure with skin and if swallowed

### **Safety phrases:**

**S2** Keep out of the reach of children

**S24/25** Avoid contact with skin and eyes

**S37/39** Wear suitable gloves and eye/face protection

US Classification and label test

US Statements: Caution! Irritant to skin and eyes.

United States Regulatory Information

SARA Listed: No

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: no

NDSL: no

## Section 16 - Additional Information

**MSDS Creation Date:** May 11, 2012

**Revision #1** YM 2-14-14 co-sign RC

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