

OXALIC ACID 1%, AQUEOUS

Section 1 - Chemical Product and Company Identification

SDS Name: Oxalic 1% Aqueous

Catalog Numbers: SO-388

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	1w/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: 1.03-1.23

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#:

LD50/LC50:

LD50 data for Oxalic acid, anhydrous (CAS no. 144-62-7): LD50[rat] - Route: oral; Dose: 7500 mg/kg

CAS# 6153-56-6

Carcinogenicity:

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

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 1.4×10^{-10} atm-m³/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 waste 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 4/25/14 YM cosign: CF 7/8/14

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