



Material Safety Data Sheet
Oxalic acid solutions, 5% - 10% W/V

Section 1 - Chemical Product and Company Identification

MSDS Name:

Oxalic acid solutions, 5% - 10% W/V

Catalog Numbers:

LC18050, LC18060, LC18080

Synonyms:**Company Identification:**

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
6153-56-6	oxalic acid, dihydrate	5-10

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

*Appearance: Colorless**Caution! Corrosive. May cause severe eye and skin irritation with possible burns.**Target Organs: Noneknown.***Potential Health Effects****Eye:**

Dilute concentrations produce epithelial damage with prompt recovery. Higher concentrations cause corrosive corneal damage.

Skin:

Corrosive action can lead to ulceration, pain, burning, soreness, blue discoloration, gangrene.



Material Safety Data Sheet

Oxalic acid solutions, 5% - 10% W/V

Ingestion:

5gramshasbeenfatal,15-30gconsideredlethal.Irritation,corrosionormouth,throat,stomachwithpain,vomiting followed by muscular tremors, convulsions weak pulse. Collapse and death can occur; after apparent recovery, acute kidney failure may occur (renal tubules blocked by calcium oxalate formation).

Inhalation:

Mucousmembraneirritation,acuteexposurecanleadtopulmonaryedema.

Chronic:

Maycauseconjunctivitis.Poisoningsymptomsincludechronicupperrespiratorytractinflammation,epistaxis,kidney impairment. Skin may be discolored blue, fingernail color change, gangrene can occur.

Section 4 - First Aid Measures

Eyes:

Flusheyewithplentyofwaterforatleast15minutes,occasionallyliftingtheupperandlowerlidsuntilnoevidence of chemical remains. Get medical aid at once.

Skin:

Getmedicalaid.Immediatelyflushskinwithplentyofsoapandwaterforatleast15minuteswhileremoving contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

DoNOTinducevomiting.Getmedicalaidatonce.Giveconsciousnon-convulsivevictimadilutesolutionofcalcium USP or calcium gluconate USP, or milk.

Inhalation:

Giveartificialrespirationifnecessary.Getmedicalaid.Keepvictimwarm,atrest.Movevictimtofreshair.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Movecontainerifpossible,avoidbreathingvaporsordust.Avoidbreathingfumesordusts.Formsexplosivesalts with silver compounds, reacts explosively with chlorites, hypochlorites.

Extinguishing Media:

For small fires, usedrychemical,carbondioxide,watersprayoralcohol-resistantfoam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 6153-56-6: Not published.

Explosion Limits:

Lower: Upper:



Material Safety Data Sheet

Oxalic acid solutions, 5% - 10% W/V

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Label "CORROSIVE-POISON", hold for later disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
oxalic acid, dihydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear neoprene, natural nitrile rubber, or PVC gloves.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Self-contained breathing apparatus with full facepiece. Exposure limit to 50 mg/m³ - supplied air respirator with full facepiece, helmet, or hood. Above 50 ppm operate equipment in positive pressure, pressure demand, or continuous flow mode.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless



Material Safety Data Sheet

Oxalic acid solutions, 5% - 10% W/V

Odor: Odorless
pH: Acidic
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: < ether
Viscosity: No information found.
Boiling Point: No information found.
Freezing/Melting Point: No information found.
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: >1
Molecular Formula: No information found.
Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Strong oxidizing agents, bases, silver compounds (forms silver ozolates), chlorites, hypochlorites.

Hazardous Decomposition Products

Carbon monoxide, formic acid, dry crystals decompose at sublimation point (149-160F).

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 6153-56-6 unlisted.

LD50/LC50:

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 6153-56-6:
No information found.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 6153-56-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Oxalic acid is a severe eye, mucous membrane, skin irritant. It is a convulsant neurotoxin, nephrotoxic. Increased risk to persons with kidney, respiratory, skin disease and convulsive disorders.



Material Safety Data Sheet
Oxalic acid solutions, 5% - 10% W/V

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS#7732-18-5 is listed on the TSCA Inventory.

CAS#6153-56-6 is not on the TSCA Inventory, however, its anhydrous form is on the inventory and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Oxalic acid, dihydrate can be found on the following state Right-to-Know lists: Pennsylvania.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.



Material Safety Data Sheet
Oxalic acid solutions, 5% - 10% W/V

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 6153-56-6 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 24, 1997

Revision Date: August 30, 2007

Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.