



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

OXALIC ACID

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: January 2008

Synonyms: Ethandioic Acid

CAS #: 6153-56-6 or 144-62-7 (OSHA substance list)

DOT Hazard Class: Corrosive Solid, Acidic, Organic, N.O.S.
(Oxalic Acid)
UN 3261, Class 8, PG III, Corrosive

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Oxalic Acid 99.5% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless, white crystals. It is irritating to the eyes, skin and mucous membranes. Harmful if ingested. Corrosive vapors may form in a fire. Keep away from oxidizers.

POTENTIAL HEALTH EFFECTS:

Eyes: Can cause irritation.

Skin: Can cause irritation.

Inhalation: Can cause serious corrosive damage to the mouth throat and stomach.

Ingestion: Is harmful and fatal if large doses are swallowed.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

SECTION 4 - FIRST AID MEASURES

Eyes: Wash immediately with plenty of water for at least 15 minutes.

Skin: Remove contaminated clothing and wash off skin with soap and water.

Inhalation: Remove to the fresh air and/or offer respiratory support.

Ingestion: Do not induce vomiting. Give diluted milk of magnesia, lime water or milk, if conscious. Get immediate medical attention.

With All Of The Above: Seek medical attention if conditions persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Flammable

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and goggles. Remove from the fire area if safely possible.

Unusual Fire Explosion Hazard: Above 250 °F, material may sublime to irritating corrosive vapor or mist.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA/OSHA proved respirators.

NIOSHA recommended:

Respiratory Protection

Maximum concentration for use:

25 mg/m³:

Supplied air respirator with continuous flow mode; or any powered, air purifying respirator with a dust and mist filter. Eye protection is still required.

50 mg/m³:

Air-purifying, full-facepiece respirator with a high-efficiency particulate filter; or any self contained breathing apparatus with a full facepiece or a supplied-air respirator with a full facepiece.

500 mg/m³:

Any supplied-air respirator with a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

CONTINUED: SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Emergency or planned entry into unknown concentrations or IDLH conditions:

Any self-contained breathing apparatus that has a full face-piece and is operated in a pressure-demand or other positive-pressure mode; or any supplied air respirator that has a full facepiece and is operated in a pressure-demand or other positive pressure mode, in combination with an auxiliary self-contained breathing apparatus, operated in pressure-demand or other positive pressure mode.

Escape conditions:

Any air-purifying, full facepiece respirator with at high-efficiency particulate filter; or any appropriate escape-type self-contained breathing apparatus.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: NIOSH recommended exposure limit (REL): 1 mg/m³ @ a time weighted average (TWA) concentration for up to a 10 hour day, per 40 hour work week. NIOSH short term exposure limit (STEL): 2 mg/m³ for a 15 minute TWA exposure that should not be exceeded for any time during a workday. OSHA permissible exposure limits (PEL's): 1 mg/m³ @ a TWA not to be exceeded during any 8 hour work shift of a 40 hour work week.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable (sublimes)

Vapor Pressure (MM Hg): <0.001 mm Hg @ 25 °C

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H2O=1): 1.65 Bulk Density: Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Dihydrate 101 °C Anhydrous 189.5 °C (dec)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Moderate (14% by weight @ 25 °C)

pH: Solutions are acidic.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of Co_x and Formic Acid.

KEEP AWAY FROM: Strong oxidizer, alkalies, chlorides, hypochlorites, silver compounds, and furfuryl alcohol.

SECTION 11 - TOXICOLOGICAL INFORMATION

LDL₀ Oral-Human 71 mg/kg

LD₅₀ Oral-Rat 375 mg/kg

IDLH (immediately dangerous to health or life concentration) = 500 mg/m³

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Corrosive Solid, Acidic, Organic, N.O.S.
(Oxalic Acid)
UN 3261, Class 8, PG III, Corrosive

SECTION 15 - REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT):

This product is listed on the TSCA Inventory.

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Immediate (acute) Health Hazard.

SECTION 16 - OTHER INFORMATION

Reason for Issue: Updated Hazard Info. Section 1 and 14.

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