



PRODUCT INFORMATION

OXALIC ACID

GENERAL DESCRIPTION:

OXALIC ACID is a concentrated granular organic acid commonly used in laundries as a sour and rust remover. Useful for neutralizing and removing industrial fallout on equipment and vehicles. OXALIC ACID is used as a bleaching agent for plywood and other light woods. An OXALIC ACID solution removes rust stains and dissolves ferric iron oxide films from lines, pipes, and equipment.

<u>PROPERTIES:</u>	Form:	Granular powder
	Color:	White
	Odor:	None
	Activity:	100% OXALIC ACID
	pH (1% solution)	1.65-1.75
	Solubility	120 parts in 100 parts water at 120°F

USE DIRECTIONS:

For use as a laundry sour and rust remover, use 2 ounces per 100 pounds of dry weight cloth.

For use in industrial fallout removal and iron stain removal from equipment, prepare solution of 4 to 8 ounces of OXALIC ACID per gallon of warm water. Apply with sponge or mop. Rinse thoroughly.

For removing rust stains and iron oxide films from lines, prepare a 1 to 2% solution of OXALIC ACID (1 1/2 to 3 ounces/ gallon of water). Circulate through lines for 2-8 hours. Flush thoroughly with fresh water.

CAUTION: Contains Oxalates. May be fatal or harmful if swallowed. Wash thoroughly after handling. May cause eye or skin irritation or burns. For contact with skin or eyes, flush thoroughly with plenty of water for at least 15 minutes. For eyes, get prompt medical attention. Do not ingest. Consult the Material Safety Data Sheet for additional precautions.

KEEP OUT OF REACH OF CHILDREN.

PACKAGING: 55 lb. sack

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MT. HOOD CHEMICAL CORPORATION

4444 N.W. YEON AVENUE, PORTLAND, OREGON 97210

(503) 227-3505 FAX (503) 225-9143

Call Toll Free (800) 547-2594

MT. HOOD CHEMICAL CORPORATION
 4444 N.W. Yeon Avenue
 Portland, Oregon 97210
 Emergency Phone: 503-227-3505

MATERIAL SAFETY DATA SHEET
 PRODUCT NAME: OXALIC ACID

N/A = NOT APPLICABLE
 NA = NOT AVAILABLE

PRODUCT NAME: OXALIC ACID PREPARED BY: K Woods DATE: August 31, 1995

CHEMICAL FAMILY: Organic Acid FORMULA: HOCCOOH•2H₂O

HAZARDOUS INGREDIENTS (CAS #):	%	EXPOSURE LIMITS, ppm	ACGIH TLV	OSHA-PEL
Oxalic acid (144-62-7)	More than 99.5%		1mg/M ³	1mg/M ³

CARCINOGENIC INGREDIENTS: Contains no known or suspected carcinogens
 SARA TITLE III, SECTION 313 REPORTABLE INGREDIENTS: None

PHYSICAL PROPERTIES

Boiling Point: N/A	% Volatiles: N/A
Solubility in Water: 11.7% at 20°C	Vapor Density (Air = 1): N/A
Odor and Appearance: White crystalline powder; odorless	Vapor Pressure: N/A

FIRE AND EXPLOSION DATA:

Flash Point: None	Flammability Limits: N/A
Extinguishing Media: Water, CO ₂ foam, dry chemical	
Special Firefighting Procedures: None	
Unusual Hazards: None	

HEALTH EFFECTS:

Effects of overexposure: May cause eye or skin irritation or burns. Ingestion may be harmful or fatal. Ingestion may cause irritation or burns to mouth, throat, and esophagus. Inhalation of dust may cause irritation to the mucous membranes.
 Chronic effects of overexposure: None known or expected
 Medical conditions that may be aggravated by exposure: None known or expected
 Primary routes of entry: Ingestion, skin contact, inhalation of dust

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush thoroughly with plenty of water for at least 15 minutes. See a physician immediately.
 Skin Contact: Flush thoroughly from skin with water. If irritation persists, see a physician.
 Ingestion: Drink plenty of water and call a physician immediately. DO NOT INDUCE VOMITING. Give milk or milk of magnesia if available.
 Inhalation of mist or vapor: Move to fresh air. Administer oxygen if breathing is difficult.

REACTIVITY DATA:

Stability: Stable	Hazardous Polymerization: Will not occur.
Incompatibility: Strong oxidizers	
Hazardous Decomposition Products: Thermal decomposition produces formic acid, carbon dioxide	
Conditions to Avoid: High heat, moisture	

SPILL OR LEAKAGE PROCEDURES:

Steps to be taken if material is released or spilled: Sweep up and place in a closed container.
 Waste disposal method: According to local, state, or federal ordinances.

SPECIAL PROTECTION INFORMATION:

Ventilation: No special ventilation required.
 Respiration Protection: None required under normal use. If dusty, wear a dust mask or NIOSH approved respirator.
 Eye Protection: Safety goggles or glasses are recommended, especially in dusty areas.
 Protective Gloves: Impervious gloves are recommended.
 Other Protective Equipment: None required.

SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store in closed container in a dry place. Wash thoroughly after handling.
 KEEP OUT OF REACH OF CHILDREN.
 Other precautions: None

HAZARD RATING:

Health: 1	0 = Minimal	3 = Serious
Fire: 0	1 = Slight	4 = Severe
Reactivity: 0	2 = Moderate	