

HAZARD RATING 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT	Fire	0	Reactivity Special
	Health	3	
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		0	

MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

Date Prepared: 9-30-03

SECTION 1 - PRODUCT IDENTIFICATION

Company Name	Daley International	Emergency Telephone No.	800-535-5053
Address	4100 W. 76th Street, Chicago, IL 60652	Information Telephone No.	773-284-6565
Product Name / ID#	Oxalic Acid (300653)	Product Type	Rust Remover <input checked="" type="checkbox"/> Proprietary Product

SECTION 2 - HAZARDOUS INGREDIENTS

Chemical Name/Common Name	Cas No.	Percent (optional)	TLV (Source)
Oxalic Acid	144-62-7	> 90%	0.27 ppm (ACGIH)

* Substances Contains no substances - subject to the reporting requirements of SARA 313 and 40 CFR Part 372.

SECTION 3 - PHYSICAL DATA

Boiling Point (°F)	Approx. 212°F	Specific Gravity (H ₂ O=1.0)	1.653 ± 0.005	pH	1.3 ± 0.5	% VOC (ww)	0%
Solubility in Water	<input type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input checked="" type="checkbox"/> Emulsifiable or (Dispersible) <input type="checkbox"/> Slight (or Partial)						
Evaporation Rate (vs H ₂ O)	NA	<input type="checkbox"/> Faster <input type="checkbox"/> Slower <input type="checkbox"/> About the Same	Vapor Pressure	NA	Vapor Density	NA	

Appearance and Odor White powder. Nil odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.)	<input checked="" type="checkbox"/> None to boiling	Flammable Limits	Upper	NA	Lower	NA
Extinguishing Media	NA					
Special Fire Fighting Procedures	None					
Unusual Fire Explosion Hazards	None					

SECTION 5 - REACTIVE DATA

Stability	Stable	Incompatibility	Alkalie oxidizing agents.
Hazardous Decomposition Products	Oxides of carbon. Possibly formic acid and other miscellaneous toxic gases.		

SECTION 6 - HEALTH HAZARDS

Threshold Limit Value Product See Section 2 for Ingredients TLV	<input checked="" type="checkbox"/> None Established	<input type="checkbox"/> Not Applicable	Primary routes of Exposure	<input checked="" type="checkbox"/> Eyes	<input checked="" type="checkbox"/> Skin	<input checked="" type="checkbox"/> Oral	<input checked="" type="checkbox"/> Inhalation
Signs Symptoms of Over-exposure (Acute)	Eye contact may cause severe irritation- possible burns. May cause irritation or possible burns on more prolonged contact with skin.						
Inhalation of product may cause irritation, possibly severe, to the upper respiratory tract and can also irritate the lungs. Repeated inhalation could eventually lead to renal damage.							
Ingestion can cause irritation and possibly burns to the mouth, throat, and stomach. Oxalic acid is a systemic poison affecting the central nervous system and kidney function.							
Signs Symptoms of Over-exposure (Chronic)	Unknown						
Medical Conditions Aggravated by Over-exposure	Unknown						
Carcinogen/Suspected Carcinogen Ingredients:	<input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> None						

SECTION 7 - FIRST AID PROCEDURES - (If any Condition persists - Consult a physician.)

Eyes	Flush with water for at least 15 minutes. Consult a physician.
Skin	Flush with water for at least 15 minutes. Remove any contaminated clothing and wash before reuse.
Ingestion	Do Not induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. Call a physician immediately
Inhalation	Remove to fresh air. If qualified, give oxygen or artificial respiration as needed and/or seek medical attention.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection	None usually required during normal usage. If misting of product is anticipated use NIOSH approved respirator.		
Ventilation requirements	<input checked="" type="checkbox"/> Local Exhaust	<input checked="" type="checkbox"/> Mechanical	As needed to keep below any listed TLV and/or for general good ventilation.
Protective Gloves	Rubber	Eye Protection	Safety goggles
Other Protective Clothing	Chemical apron plus any other chemically resistant clothing to prevent personal contact with product.		

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled	Sweep up. Place in appropriate containers for disposal.
Waste Disposal Methods	Check all government regulations. If allowed, incineration would be preferred method.

SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in handling and Storage	Store so as to be inaccessible to children. Wash thoroughly after handling.
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