

ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP -- OXALIC ACID,99 + %,24117-2 --  
6810-01-448-9258

===== Product Identification =====

Product ID:OXALIC ACID,99 + %,24117-2

MSDS Date:06/11/1990

FSC:6810

NIIN:01-448-9258

MSDS Number: CFRMT

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP

Address:1001 W. ST. PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53201

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

CAGE:60928

Company Name:FLUKA CHEMICAL CORP

Address:1001 WEST ST PAUL

Box:City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

CAGE:63181

===== Composition/Information on Ingredients =====

Ingred Name:O

XALIC ACID  
CAS:144-62-7  
RTECS #:RO2450000  
> Wt:99.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/2 STEL; 9596

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===== Hazards Identification =====  
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 7500 MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS: NERVES, KIDNEYS.  
ACUTE- TOXIC, HARMFUL IF SWALLOWED/INHALED/ABSORBED THROUGH SKI  
N.  
EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT, EYES AND SKIN. I NHALATION MAY RESULT IN SPASM,  
INFLAMMATION AND PULMONARY EDEMA. CHRONIC- UNKNOWN.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:MAY INCLUDE BURNING SENSATION, COUGHING,  
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, AND  
VOMITING.

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===== First Aid Measures =====  
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First Aid:IN CASE OF CONTACT, IMMEDIATELY FLU  
SH EYES OR SKIN WITH  
COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN WHILE REMOVING  
CONTAMINATED CLOTHING AND SHOES. ENSURE ADEQUATE FLUSHING OF THE  
EYES BY SEPARATING THE EYELIDS WITH FINGERS. IF INHALED, REMOVE TO  
FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF  
BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF EXPOSURE, OBTAIN  
MEDICAL ATTENTION IMMEDIAT ELY. DISCARD CONTAMINATED CLOTNING AND  
SHOES.

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===== Fire Fighting Measures =====  
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Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL POWER, ALCOHOL OR  
POLYMER FOAM.  
Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS AND  
PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
Unusual Fire/Explosion Hazard:THIS MATERIAL, LIKE MOST MATERIALS IN  
POWDER FORM, IS CAPABLE OF CREATING A DUST EXPLOSION.

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===== Accidental Release Measures =====  
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Spill Release Procedures:WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES,  
RUBBE

R BOOTS AND HEAVY GLOVES IF NEEDED. RECOVER IF POSSIBLE. SWEEP OR VACUUM INTO CLOSED CONTAINERS FOR DISPOSAL. AVOID DUST GENERATION.

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===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY PLACE.

Other Precautions:CORROSIVE. TOXIC. HYGROSCOPIC. USE ONLY IN CHEMICAL HOOD. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT GENERATE DUST. DO NOT BREATHE DUST. KEEP OUT OF REACH OF

CHILDREN. WASH

THOROUGHLY AFTER HANDLING. EMPTY CONTAINERS RETAIN RESIDUE.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR RESPIRATOR.

Protective Gloves:HEAVY RUBBER GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES

Other Protective Equipment:RUBBER BOOTS

Supplemental Safety and Health

NONE

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===== Physical/Chemical Properties =====

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:=-190.C, 374.F

Vapor Pres: