

WARDS NATURAL SCIENCE ESTABLISHMENT INC -- OXALIC ACID,39 W 2533 -- 6810-00-264-3937

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Product Identification  
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Product ID:OXALIC ACID,39 W 2533

MSDS Date:07/01/1986

FSC:6810

NIIN:00-264-3937

MSDS Number: BXCNC

=== Responsible Party ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692-9012

Country:US

Info Phone Num

:716-359-2502

Emergency Phone Num:716-359-2502/800-424-9300(CHEMTREC)

Preparer's Name:ALEXANDER A. PICCIRILLI

CAGE:63759

=== Contractor Identification ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

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Composition/Information on Ingredients  
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Ingred Name:OXALIC ACID

CAS:144-62-7

RTECS #:RO2450000

Fraction by Wt: 100%

Other REC Limits:NONE REC

OMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/2 STEL; 9495

===== Hazards Identification =====

LD50 LC50 Mixture:TLV 1 MG/M3. HUMAN ORAL LDL0: 100 MG/KG.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY  
& GI TRACTS. ACUTE- INHALE:IRRITATION. ORAL:TOXIC! INGESTION OF 5  
GRAMS HAS CAUSED DEATH. SKIN:CORROSIVE. CAN CAUSE SEVERE BU  
RNS.  
EYE:MAY CAUSE SEVERE BURNS & POS SIBLE PERMANENT DAMAGE. CHRONIC-  
INFLAMMATION OF UPPER RESPIRATORY TRACT, DERMATITIS, ULCERATION.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION, NAUSEA, SHOCK, CONVULSION, SEVERE  
BURNS, EYE DAMAGE, COLLAPSE, DEATH, DERMATITIS, ULCERATION  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

===== First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:FLUSH WITH WATER.  
WASH SKIN WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE  
CPR/O XYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK MILK & INDUCE  
VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER  
GIVE FLUID/INDUCE VOMITING IF PATIENT IS UNCONSCIOUS/HAS  
CONVULSIONS.

===== Fire Fighting Measures =====

Flash Point:NONE  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE/DRY CHEMICAL. USE WATER  
SPRAY TO COOL FIRE EXPOSED CONTAINERS.  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:TOXIC GASES MAY BE FORMED.

===== Accidental Release Measures =====

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Spill Release Procedures:WEAR PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION FROM DUST. WITH CLEAN DRY SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. AVOID DUST DISPERSAL. NEUTRALIZE RESIDUE WITH SODA ASH. FLUSH TO SEWER WITH WATER IF PERMITTED.

Neutralizing Agent:SODIUM BICARBONATE OR SODA ASH

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH EYES AND SKIN. AVOID CREATION OF DUST. DO NOT BREATHE DUST. READ LABEL BEFORE USING. REQUIRES EXHAUST VENTILATION IF HEATED ABOVE DECOMPOSITION TEMPERATURE.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A NIOSH-APPROVED DUST RESPIRATOR OR DUST MASK.

Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.

Protective Gloves:RUBBER OR LATEX

Eye Protection:CHEMICAL GOGGLES

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, UNIFORM

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

OXALIC ACID IS A SLIGHTLY STRONGER ACID THAN PHOSPHORIC ACID. IT IS A REDUCING AGENT.

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

HCC:C2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=150.C, 302.F

B.P. Text:SUBLIM

Melt/Freeze Pt:=101.1C, 214.F

Decomp Temp:>157.2C, 315.F

Vapor Pres:NEGLIGIBLE

Spec Gravity:1.653

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:11.7% @ 68F

Appearance and Odor:WHITE CRYSTALLINE SOLID - ODORLESS

===== Stabi

lity and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

CONCENTRATED SULFURIC ACID, ALKALIES, CHLORATES AND HYPOCHLORITES

Stability Condition to Avoid: EXCESSIVE HEAT

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE,  
FORMIC ACID

===== Disposal Considerations =====

Waste Disposal Methods: WHATEVER CANNOT BE SAVED FOR RECLAMATION MAY BE  
DISPOSED AS HAZARDOUS WASTE IN A RCRA APPROVED WASTE DISPOSAL  
FACILITY.

OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.  
INCINERATION RECOMMENDED.

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