

PHOENIX INDUSTRIES INC -- OXALIC ACID, TECHNICAL

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MSDS Safety Information
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FSC: 6810
NIIN: 00-264-3937
MSDS Date: 11/17/1999
MSDS Num: CKBTT
Product ID: OXALIC ACID, TECHNICAL
MFN: 01
Responsible Party
Cage: OYED2
Name: PHOENIX INDUSTRIES INC
Address: 11028 S LEADBETTER RD UNIT 10
City: ASHLAND VA 23005
Info Phone Number: 804-264-5183
Emergency Phone Number: 804-264-5183
Chemtrec IND/Phone: (800)424-9300
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: OYED2
Name: PHOENIX INDUSTRIES INC
Address: 1519 CHAMBERLAYNE PARKWAY
City: RICHMOND VA 23222
Phone: 804-264-5183
Contract Number: SP0450-00-M-D506

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Item Description Information
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Item Manager: S9G
Item Name: OXALIC ACID, DIHYDRATE, TECHNICAL
Specification Number: O-O-690
Type/Grade/Class: CLASS 2
Unit of Issue: LB
UI Container Qty: 1 LB
Type of Container: BOTTLE

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Ingredients
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Cas: 144-62-7
RTECS #: RO2450000
Name: OXALIC ACID
% low Wt: 99.
% high Wt: 100.
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3
ACGIH STEL: 2 MG/M3

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Health Hazards Data
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LD50 LC50 Mixture: ORAL RAT LD50: 7500 MG/KG
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO

Effects of Exposure: INHALATION: HARMFUL IF INHALED. CAN CAUSE SEVERE IRRITATION AND BURNS OF NOSE, THROAT & RESPIRATORY TRACT. INGESTION: TOXIC! MAY CAUSE BURNS, NAUSEAS, SEVERE GASTROENTERITIS & VOMITING, SHOCK & CONVULSIONS. MAY CAUSE RENAL DAMAGE, AS EVIDENCED BY BLOODY URINE. ESTIMATED FATAL DOSE IS 5 TO 15 GRAMS. SKIN: CAN CAUSE SEVERE IRRITATION, POSSIBLE SKIN BURNS. MAY BE ABSORBED THROUGH THE SKIN. EYE: OXALIC ACID IS AN EYE IRRITANT. IT MAY PRODUCE CORROSIVE EFFECTS. CHRONIC: MAY CAUSE INFLAMMATION OF THE UPPER RESPIRATORY TRACT. PROLONGED SKIN CONTACT CAN CAUSE DERMATITIS, CYANOSIS OF THE FINGERS & POSSIBLE ULCERATION. MAY AFFECT KIDNEYS.

Explanation Of Carcinogenicity: NONE LISTED.

Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS, OR IMPAIRED KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid: INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF LIMEWATER OR MILK TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SKIN: IN CASE OF CONTACT, WIPE OFF EXCESS FROM SKIN THEN IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINS. WHILE REMOVING CONTAMINATED CLOTHING & SHOES. WASH CLOTHING BEFORE REUSE. EYE: IMMEDIATELY FLUSH EYES WITH GENTLE BUT LARGE STREAM OF WATER FOR AT LEAST 15 MINS. LIFTING LOWER & UPPER EYELIDS OCCASIONALLY. (SUPPL)

Handling and Disposal

Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE CLOTHING. CLEAN UP SPILLS IN A MANNER THAT DOES NOT DISPERSE DUST INTO THE AIR. USE NON-SPARKING TOOLS/EQUIPMENT. PICK UP SPILLS FOR RECOVERY OR DISPOSAL & PLACE IN A CLOSED CONTAINER. REMOVE UNNECESSARY PEOPLE. IF MATERIAL COMES IN CONTACT WITH WATER, NEUTRALIZE, THEN ABSORB WITH AN INERT

Neutralizing Agent: NEUTRALIZE LIQUID WITH ALKALINE MATERIAL (SODA ASH, LIME).

Waste Disposal Methods: WHATEVER CAN NOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE FACILITY. ALTHOUGH NOT A LISTED RCRA HAZARDOUS WASTE, THIS MATERIAL MAY EXHIBIT ONE OR MORE CHARACTERISTICS OF A HAZARDOUS WASTE AND REQUIRE APPROPRIATE ANALYSIS TO DETERMINE SPECIFIC DISPOSAL REQUIREMENTS.

Handling And Storage Precautions: KEEP IN TIGHTLY CLOSED CONTAINER. PROTECT FROM PHYSICAL DAMAGE. STORE IN A COOL, DRY VENTILATED AREA AWAY FROM SOURCES OF HEAT, MOISTURE & INCOMPATIBILITIES. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS & PRECAUTIONS

Fire and Explosion Hazard Information

Extinguishing Media: WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON DIOXIDE. FOAM OR WATER ON MOLTEN OXALIC ACID MAY CAUSE FROTHING. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures: IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING & NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: REACTS EXPLOSIVELY WITH STRONG OXIDIZING MATERIALS & SOME SILVER COMPOUNDS.

Control Measures

Respiratory Protection: USUALLY NOT REQUIRED. IF THE EXPOSURE LIMIT IS EXCEEDED, A HALF-FACE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE AND DUST/MIST FILTER MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROP RIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST.
Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW THE AIRBORNE LIMITS.
Protective Gloves: IMPERVIOUS
Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD
Other Protective Equipment: IMPERVIOUS PROTECTIVE CLOTHING (BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS. MAINTAIN EYE WASH FOUNTAIN & QUICK-DRENCH FACILITIES IN WORK AREA.
Supplemental Safety and Health: FIRST AID CONT: IN ALL CASES: CALL A PHYSICIAN IMMEDIATELY.

Physical/Chemical Properties

HCC: C2
Boiling Point: >148.9C, 300.F
B.P. Text: 300 TO 320 F (SUBLIMES)
Melt/Freeze Pt: =102.2C, 216.F
Vapor Pres: <0.001 @ 20 DEG C (MM/HG)
Vapor Density: 4.4(AIR=1)
Spec Gravity: 1.65@18.5C/4C (DIHYDRATE)
Solubility in Water: 1G/7ML OF WATER
Appearance and Odor: TRANSPARENT, COLORLESS CRYSTALS, ODORLESS

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: STABLE UNDER ORDINARY CONDITIONS OF USE & STORAGE. HEAT WILL CONTRIBUTE TO INSTABILITY. HEAT, IGNITION SOURCES & INCOMPATIBILITIES.
Materials To Avoid: ALKALIS, CHLORITES, HYPOCHLORITES, OXIDIZING AGENTS, FURFURYL ALCOHOL AND SILVER COMPOUNDS.
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION. MAY ALSO FORM FORMIC ACID.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: WILL NOT OCCUR

Toxicological Information

Toxicological Information: OXALIC ACID IS CORROSIVE TO TISSUE. WHEN INGESTED, OXALIC ACID REMOVES CALCIUM FROM THE BLOOD. KIDNEY DAMAGE CAN BE EXPECTED AS THE CALCIUM IS REMOVED FROM THE BLOOD IN THE FORM OF CALCIUM OXALATE. THE CALCIUM THEN OBSTRUCTS THE KIDNEY TUB ULES.

Ecological Information

MSDS Transport Information

Transport Information: DOT: PROPER SHIPPING NAME: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. HAZARD CLASS 8, UN3261, PKG III.

Regulatory Information

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Other Information
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Transportation Information
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Responsible Party Cage: OYED2
Trans ID NO: 151438
Product ID: OXALIC ACID, TECHNICAL
MSDS Prepared Date: 11/17/1999
Review Date: 02/10/2000
MFN: 1
Tech Entry NOS Shipping Nm: CONTAINS OXALIC ACID.
Net Unit Weight: 1 LB
Multiple KIT Number: 0
Unit Of Issue: LB
Container QTY: 1 LB
Type Of Container: BOTTLE

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Detail DOT Information
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DOT PSN Code: DXR
DOT Proper Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Hazard Class: 8
UN ID Num: UN3261
DOT Packaging Group: III
Label: CORROSIVE
Packaging Exception: 154
Non Bulk Pack: 213
Bulk Pack: 240
Max Qty Pass: 25 KG
Max Qty Cargo: 100 KG
Vessel Stow Req: A

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Detail IMO Information
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IMO PSN Code: ETC
IMO Proper Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. o
IMDG Page Number: 8150-1
UN Number: 3261
UN Hazard Class: 8
IMO Packaging Group: I/II/III
Subsidiary Risk Label: -
EMS Number: 8-15
MED First Aid Guide NUM: 760

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Detail IATA Information
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IATA PSN Code: HMD
IATA UN ID Num: 3261
IATA Proper Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. *
IATA UN Class: 8
IATA Label: CORROSIVE
UN Packing Group: III
Packing Note Passenger: 822
Max Quant Pass: 25KG

Max Quant Cargo: 100KG
Packaging Note Cargo: 823

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Detail AFI Information
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AFI PSN Code: HMS
AFI Symbols: *
AFI Proper Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
AFI Hazard Class: 8
AFI UN ID NUM: UN3261
AFI Packing Group: III
Special Provisions: P5
Back Pack Reference: A12.4

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HAZCOM Label
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Product ID: OXALIC ACID, TECHNICAL
Cage: 0YED2
Company Name: PHOENIX INDUSTRIES INC
Street: 1519 CHAMBERLAYNE PARKWAY
City: RICHMOND VA
Zipcode: 23222
Health Emergency Phone: 804-264-5183
Label Required IND: Y
Date Of Label Review: 02/10/2000
Status Code: A
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: None
Reactivity Hazard: Slight
Hazard And Precautions: INHALATION: HARMFUL IF INHALED. CAN CAUSE SEVERE IRRITATION AND BURNS OF NOSE, THROAT & RESPIRATORY TRACT. INGESTION: TOXIC! MAY CAUSE BURNS, NAUSES, SEVERE GASTROENTERITIS & VOMITING, SHOCK & CONVULSIONS. MAY CAUSE RENAL DAMAGE, AS EVIDENCED BY BLOODY URINE. ESTIMATED FATAL DOSE IS 5 TO 15 GRAMS. SKIN: CAN CAUSE SEVERE IRRITATION, POSSIBLE SKIN BURNS. MAY BE ABSORBED THROUGH THE SKIN. EYE: OXALIC ACID IS AN EYE IRRITANT. IT MAY PRODUCE CORROSIVE EFFECTS. CHRONIC: MAY CAUSE INFLAMMATION OF THE UPPER RESPIRATORY TRACT. PROLONGED SKIN CONTACT CAN CAUSE DERMATITIS, CYANOSIS OF THE FINGERS & POSSIBLE ULCERATION. MAY AFFECT KIDNEYS.

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