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FISHER SCIENTIFIC, CHEMICAL DIV.

OXALIC ACID, A219500

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: OXALIC ACID, A219500

Manufacturer Name: FISHER SCIENTIFIC, CHEMICAL DIV.

Address:

1 REAGENT LANE
 City: FAIR LAWN
 State: NJ
 Zip: 07410
 Country: US

Business Phone: 201-796-7100 OR 201-796-7523

For information in North America, call: 201-796-7100 OR 201-796-7523

Health Phone: 201-796-7100/800-424-9300(CHEMTREC)

Manufacturer MSDS Creation Date:

01/04/1991

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Percent	
OXALIC ACID	144-62-7	100	

RTECS:

RO2450000

OSHA PEL TWA: 1 MG/M3;2 MG/M3 STEL

ACGIH TLV TWA: 1 MG/M3;2 MG/M3 STEL

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ; Ozone Depleting Chemical: N ;

Chemical Name		Percent	
EFTS OF OVEREXP:IRREVERSIBLE EYE DMG. INGEST:CONC DOSES CAUSE SEVERE IRRIT OF MUC MEMB OF GI TRACT. IMMED SOUR (ING 3)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 2:OR BITTER TASTE, BURNING, PAIN & DFCLTY SWALLOWING, VOMITING, NAUSEA, DIARRHEA, BLOODY		N/K	

STOOLS, DEHYDRATION (ING 4)			
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RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 3:& DEATH FROM GI INJURY & SHOCK. SYSTEMIC EFTS INCLUDE SHOCK, HYPOTENSION, HYPOCALCEMIA W/RESP/NEURO/ (ING 5)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 4: CARDIOVASCULAR, MUSCLE EFTS, COLLAPSE, COMA, CONVULSIONS. KIDNEY DAMAGE. CHRONIC: INHAL: RPTD INHAL OF HOT (ING 6)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 5: OXALIC ACID FUMES RESULTED IN WT LOSS, CHRONIC INFLAMMATION OF UPPER RESP TRACT & RENAL IMPAIRMENT. (ING 7)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 6: SKIN: PRLNGD/RPTD EXPOS MAY CAUSE DERM,		N/K	

PARESTHESIA, CYANOSIS OF FINGERS, DISCOLORATION & BRITTLENESS OF (ING 8)			
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RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 7:FINGERNAILS & GANGRENOUS LESIONS CHARACT BY CRACKING, FISSURING & SLOW-HEALING ULCERS. EYE:EFTS DEPEND ON (ING 9)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 8:CONC & DURATION OF EXPOS. CNTCT W/CORR SUBSTANCES MAY RESULT IN CONJUNCT/EFTS SIMILAR TO ACUTE EXPOSURE. (ING 10)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 9:INGEST:MAY RESULT IN DEPOSITS OF CALCIUM OXALATE IN KIDNEY AND BRAIN W/EFTS ON CARDIAC & NERVOUS TISSUES.		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
FIRST AID PROC:GET MD IMMED. INGEST:PRECIPITATE		N/K	

OXALATE BY GIVING CALCIUM IN ANY FORM ORALLY, SUCH AS MILK, (ING 12)			
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RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 11:LIME WATER, CHALK, CALCIUM GLUCONATE, CALCIUM CHLORIDE/CALCIUM LACTATE. DO NOT USE GASTRIC LAVAGE/EMESIS (ING 13)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 12:IF TISS CORR HAS OCCURRED. DISSOLVE TO G (2 TSPNS) OF CALCIUM LACTATE IN LAVAGE/EMESIS FLUIDS. (ING 14)		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
ING 13:ANTIDOTE:GIVE 10G CALCIUM GLUCONATE, 10 ML SLOWLY INTRAVENOUSLY & REPEAT IF SYMPTOMS PERSIST.		N/K	

RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

Chemical Name		Percent	
SPILL PROC:AHEAD OF SPILL FOR LATER DISPOSAL. KEEP		N/K	

UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA & DENY ENTRY.			
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RTECS:

9999999ZZ

OSHA PEL TWA: N/K

ACGIH TLV TWA: N/K

ACGIH STEL/Ceiling: N/P

Comments:

Other REC Limits: N/K ;

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SECTION 3 : HAZARDS IDENTIFICATION

Applies to all Ingredients.:

Route of Exposure:

Inhalation: YES Skin: YES Ingestion: YES

Potential Health Effects:

CORR/NEPHROTOXIN. 500 MG/M3 IDLH. ACUTE: INHAL:DUST/VAPS MAY CAUSE IRRIT & ULCERATION OF MUC MEMB OF UPPER RESP TRACT, SEVERE HDCH, CHRONIC COUGH, NOSEBLEEDS, SHORT OF BREATH, RPTD VOM, BACKACHE, WT L OSS, MUSC IRRIT, NERVOUS, ANEMIA,ALBUMINURIA & PROSTRATION. IF SUFFICIENT AMTS ABSORBED,RENAL IMPAIRMENT(EFTS OF OVEREXP

Carcinogenicity:

NOT RELEVANT

OSHA Designation: NO

NTP Designation: NO

IARC Designation: NO

Signs/Symptoms:

HLTH HAZ:MAY OCCUR. SKIN:CNTCT W/CRYSTALS/ SOLN MAY CAUSE SEVERE IRRIT W/TINGLING, PAIN, REDNESS & BURNS. IF SUFFICIENT AMTS ABSORBED,SYMPS MAY OCCUR AS IN ACUTE INGEST. EYE:DIRECT CNTCT MAY CAUSE SEV ERE IRRIT W/REDNESS, PAIN, BURNS, BLURRED VISION & REVERSIBLE CORNEAL DMG. PRLNGD CNTCT W/SOLN MAY CAUSE (ING 2)

Aggravation of Pre-Existing Conditions:

PERSONS W/CHRONIC RESPIRATORY, KIDNEY, EYE OR SKIN DISEASE OR CONVULSIVE DISORDERS.

LD 50 LC 50 Mixture

LD50:(ORAL,RAT)375 MG/KG.

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SECTION 4 : FIRST AID MEASURES

First Aid

INHAL:REMOVE TO FRESH AIR IMMED. IF BRTHG STOPPED,GIVE ARTF RESP. GET MD IMMED. SKIN:REMOVE CONTAMD CLTHG & SHOES IMMED. WASH AFFECTED AREA W/SOAP/MILD DETERGENT & LG AMTS OF WATER (AT LEAST 15-20 MIN). IF CHEM BURN, COVER W/STERILE,DRY DRESSING. BANDAGE SECURE,NOT TOO TIGHTLY, GET MD IMMED. EYE:WASH IMMED W/LG AMTS OF WATER LIFTING LIDS, AT LEAST 15-20 MIN. COVER W/STERILE BANDAGES, (ING 11)

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SECTION 5 : FIRE FIGHTING MEASURES

Flash Point:

N/K

Flash Point Method:

N/P

Upper Flammable or Explosive Limit: N/K

Lower Flammable or Explosive Limit: N/K

Auto Ignition Temperature: N/A

Extinguishing Media:

DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. LARGER FIRES: WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Instructions:

WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP (FP N). MOVE CNTNRS FROM FIRE AREA IF CAN BE DONE W/OUT RISK. APPLY COOLING WATER TO SIDES OF CNTNRS (SUPP DATA)

Unusual Fire Hazards:

SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak Response:

DO NOT TOUCH SPILLED MATL. STOP LEAK IF CAN BE DONE W/OUT RISK. SML: TAKE UP W/SAND/OTHER ABSORB MATL & PLACE INTO CNTNRS FOR LATER DISP. SML, DRY: W/CLEAN SHOVEL PLACE MATL INTO CLEAN, DRY CNTNR & COVER. MOVE CNTNRS FROM SPILL AREA. LG: DIKE FAR (ING 15)

Other Precautions:

SEPARATE FROM OXIDIZING MATERIALS. STORE AWAY FROM INCOMPATIBLE SUBSTANCES. MAY BURN BUT DOES NOT IGNITE READILY. FLAMMABLE. POISONOUS GASES MAY ACCUMULATE IN TANKS & HOPPER CARS. MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL, ETC.).

Neutralizing Agent

NONE SPECIFIED BY MANUFACTURER.

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SECTION 7 : HANDLING and STORAGE

Handling:

PROTECT AGAINST PHYSICAL DMG. STORE IN COOL, DRY, WELL-VENT LOCATION AWAY FROM ANY AREA WHERE FIRE HAZARD MAY BE ACUTE. OUTSIDE STORAGE PREFERRED.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Ventilation System:

PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Hand Protection Description:

IMPERVIOUS GLOVES (FP N).

Eye/Face Protection:

CHEM WORK GOG & FULL LENGTH FSHLD (FP N).

Respiratory Protection:

USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N). FOR ADDITIONAL INFORMATION ON RESPIRATOR SELECTION, REFER TO ORIGINAL MSDS (FP N).

Other Protective:

IMPERVIOUS CLOTHING & EQUIPMENT. EYE WASH FOUNTAIN & QUICK DRENCH SHOWER W/IN IMMEDIATE WORK AREA FOR EMERGENCY USE.

Other:

PH:1.3 @ 0.1 M SOLN. FIRE FIGHT PROC:EXPSD TO FLAMES UNTIL WELL AFTER FIRE OUT. STAY AWAY FROM ENDS OF TANKS. DO NOT USE WATER DIRECTLY ON MATL. IF LG AMTS OF COMBUST MATLS INVOLVED, USE WATER SPRAY/F OG IN FLOODING AMTS. AVOID BRTHG CORROSIVE DUSTS & FUMES FROM BURNING MATL, KEEP UPWIND.

Work Hygienic Practices

NONE SPECIFIED BY MANUFACTURER.

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

COLORLESS TO WHITE, MONOCLONIC OR RHOMBIC HYGROSCOPIC CRYSTALS.

pH:

SUPDAT

Decomposition Temperature:

N/K

Vapor Pressure:

<0.001

Vapor Density:

N/K

Boiling Point:

N/K

Melting Point:

374F,190C

Solubility In Water:

10%

Specific Gravity:

1.9 @ 17C

Evaporation Point:

N/K

Percent Volatile:

N/K

Viscosity:

N/P

Other:

Corrosion Rate: N/K

HCC

C2

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SECTION 10 : STABILITY AND REACTIVITY

Chemical Stability:

YES

Conditions to Avoid:

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

Incompatibilities with Other Materials:

ALKALIES, FURFURYL ALCOHOL, STRONG OXIDIZERS, SILVER & SILVER CMPDS, SODIUM CHLORITE, SODIUM HYPOCHLORITE.

Hazardous Polymerization:

NO

Hazardous Decomposition Products:

THERMAL DECOMPOSITION MAY RELEASE HIGHLY TOXIC CO & IRRITATING & TOXIC FUMES OF FORMIC ACID.

Conditions To Avoid Polymerization

NOT RELEVANT

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SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Paragraph:

N/P

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SECTION 12 : ECOLOGICAL INFORMATION

Ecological Paragraph:

N/P

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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE. FOR ASSISTANCE, CONTACT DISTRICT DIRECTOR OF ENVIRONMENTAL PROTECTION AGENCY.

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SECTION 14 : TRANSPORT INFORMATION

Transportation Information:

N/P

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SECTION 15 : REGULATORY INFORMATION

Applies to all ingredients:

SARA:

N/P

US Federal:

N/P

State:

N/P

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SECTION 16 : ADDITIONAL INFORMATION

MSDS Author:

N/P

Disclaimer:

Please note that although the information, opinions and recommendations contained in these Material Safety Data Sheets are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information. Newly discovered hazards are frequent and this information may not be completely up to date.

Other Information

N/P

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