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**425-889-3400**

For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

**MSDS Number:P17532VS MSDS Version:007**

007 02/26/02 OXALIC ACID

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PRODUCT IDENTIFICATION  
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PRODUCT NAME: OXALIC ACID

MSDS#: P17532VS

DATE ISSUED: 04/10/00

SUPERSEDES: 05/30/96

ISSUED BY: 008150

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER .....JLM MARKETING, INC.  
8675 HIDDEN RIVER PARKWAY  
TAMPA, FL 33631  
PHONE: 613-632-3300

FAX: 813-632-3301  
 EMERGENCY PHONE NUMBER(S) CHEMTREC DAY OR NIGHT 1-800-424-9300  
 REVISION ..... NEW FORMAT  
 TRADE NAMES/SYNONYMS:..... OXALIC ACID/ ETHANEDIONIC ACID  
 CHEMICAL FAMILY .....CARBOXYLIC ACID  
 PRODUCT USE..... NO DATA  
 CHEMICAL FORMULA .....C2H2O2.2H2O  
 NFPA HAZARD RATING:  
 FIRE ..... 1  
 HEALTH ..... 2  
 REACTIVITY ..... 0

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	%WGT	ACGIH TLV	OSHA PEL
OXALIC ACID	99.6%	2m/m3	1m/m3

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW .....HARMFUL IF SWALLOWED. HARMFUL IF INHALED.  
 CAUSES SEVERE EYE AND SKIN IRRITATION.

## CAUSES

RESPIRATORY TRACT IRRITATION. PRODUCT IS A  
 COLORLESS, ODORLESS, SOLID WHICH COMES IN A  
 TRANSPARENT CRYSTALLINE FORM. MAY CAUSE

## BURNING

TO THE MOUTH, ESOPHAGUS, AND STOMACH WITH  
 SYMPTOMS OF VOMITING AND ABDOMINAL PAIN.

## POTENTIAL HEALTH EFFECTS:

INGESTION ..... MAY CAUSE IRRITATION OF MOUTH, ESOPHAGUS,  
 STOMACH.  
 SKIN CONTACT ..... MAY CAUSE IRRITATION.  
 INHALATION ..... IRRITATING TO THE NOSE AND THROAT. MAY CAUSE  
 INFLAMMATION OF THE RESPIRATORY TRACT.

## SYMPTOMS

INCLUDE SORE THROAT, COUGHING, HEADACHE,  
 NAUSEA, AND DIFFICULTY BREATHING.

EYE CONTACT ..... SEVERE IRRITANT - MAY CAUSE DAMAGE

## MEDICAL CONDITIONS

AGGRAVATED..... NO DATA

## SUBCHRONIC (TARGET ORGAN)

EFFECTS .....NO DATA

CHRONIC EFFECTS .....NO DATA

## CARCINOGENICITY

NTP..... NO

IARC..... NO

OSHA..... NO

OTHER TOXICOLOGICAL DATA ....NO DATA

PRINCIPAL ROUTES OF ENTRY EYE CONTACT  
 SKIN CONTACT  
 INHALATION

## SECTION 4: FIRST AID MEASURES

EYE CONTACT .....WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15-20 MINUTES).  
GET  
MEDICAL ATTENTION IMMEDIATELY.  
SKIN CONTACT .....REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH WITH SOAP OR MILD  
DETERGENT  
AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE  
OF  
CHEMICAL REMAINS (AT LEAST 15-20 MINUTES).  
GET  
MEDICAL ATTENTION IMMEDIATELY.  
INHALATION..... IMMEDIATELY REMOVE VICTIM TO FRESH AIR, IF VICTIM IS NOT BREATHING A QUALIFIED PERSON SHOULD IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION, OBTAIN IMMEDIATE MEDICAL  
ASSISTANCE !  
INGESTION .....OBTAIN IMMEDIATE MEDICAL ASSISTANCE - DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO AVOID ASPIRATION.  
NOTE TO PHYSICIAN .....NO SPECIFIC ANTIDOTE, TREAT SYMPTOMATICALLY

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT..... NO DATA  
METHOD .....NOT APPLICABLE  
IGNITION TEMPERATURE .....NO DATA  
UPPER FLAMMABLE LIMIT .....NOT APPLICABLE  
LOWER FLAMMABILITY-LIMIT ....NOT APPLICABLE  
SENSITIVITY TO MECHANICAL  
IMPACT .....NO  
SENSITIVITY TO STATIC  
DISCHARGE.....NOT EXPECTED  
EXTINGUISHING MEDIA .....CARBON DIOXIDE, FOAM, DRY CHEMICAL  
SPECIAL FIREFIGHTING  
PROCEDURES .....FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.  
FLAMMABILITY CLASS (OSHA)... NOT APPLICABLE

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN FOR  
SPILLS OR RELEASES .....SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER  
DISPOSAL.  
DO NOT FLUSH SPILLED MATERIAL INTO SEWER.  
KEEP

UNNECESSARY PEOPLE AWAY.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURES .....THIS PRODUCT MUST BE HANDLED BY PROPERLY TRAINED PERSONNEL.

DO NOT BREATHE DUST OR VAPORS.  
AVOID ALL SKIN AND EYE CONTACT BY WEARING PROPER PROTECTIVE EQUIPMENT.  
HANDLE AWAY FROM ALL SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. WASH THOROUGHLY

AFTER  
EATING,

USING THIS PRODUCT, ESPECIALLY BEFORE DRINKING OR SMOKING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. EMPTY CONTAINERS RETAIN HAZARDOUS RESIDUE, DISPOSE OF ACCORDINGLY.

STORAGE PROCEDURES .....STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY

FROM INCOMPATIBLE MATERIALS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS .....DESIGN AND IMPLEMENT CONTROLS AND PROCEDURES TO

AVOID ACCUMULATION OF DUST.

RESPIRATORY PROTECTION .....THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED

ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND BE JOINTLY APPROVED BY

THE  
AND

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA).

PROTECTIVE CLOTHES .....IMPERVIOUS GLOVES AND CLOTHING TO PREVENT SKIN

CONTACT.

EYE AND FACE PROTECTION .....WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES TO PREVENT EYE CONTACT WITH THIS SUBSTANCE.

OTHER PROTECTIVE EQUIPMENT... WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN

EYE

WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE A

QUICK

DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

VENTILATION .....USE LOCAL EXHAUST AND PROCESS ENCLOSURE TO CONTROL DUSTS OR VAPORS. USE OF A CORROSION-RESISTANT VENTILATION SYSTEM IS RECOMMENDED.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY (AIR=1)..... NOT APPLICABLE  
FREEZING/MELTING POINT .....NO DATA  
PHYSICAL STATE .....SOLID  
ODOR .....ODORLESS  
COLOR .....COLORLESS, TRANSPARENT  
ODOR THRESHOLD (PPM)..... NO DATA  
VOLATILES % VOLUME .....NOT APPLICABLE  
EVAPORATION RATE (BUTYL ACETATE=1.0)..... NO DATA  
SPECIFIC GRAVITY(WATER=1.0)..NO DATA  
MOLECULAR WEIGHT .....NO DATA  
ACID/ALKALINITY (MEQ/G)..... NO DATA  
PH..... NO DATA  
VOC (EPA METHOD 24)..... NOT APPLICABLE  
SOLUBILITY IN ORGANIC SOLVENTS .....NO DATA  
BOILING POINT .....NO DATA  
VAPOR PRESSURE MM/HG (20 C)..... NO DATA  
SOLUBILITY IN WATER (20 C).. NOT APPLICABLE  
OCTANOL/WATER PARTITION COEFFICIENT .....NO DATA

SECTION 10: STABILITY AND REACTIVITY

STABILITY .....STABLE  
HAZARDOUS POLYMERIZATION ....WILL NOT OCCUR  
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS .....OXIDES of CARBON  
INCOMPATIBILITY (MATERIALS TO AVOID) .....OXIDIZING AGENTS  
ALKALIS  
CONDITIONS TO-AVOID .....EXPOSURE TO HEAT, FLAME OR IGNITION SOURCES. CONTACT WITH INCOMPATIBLE SUBSTANCES. MOISTURE

SECTION 11: TOXICOLOGICAL INFORMATION

LD50 ORAL .....7500 mg/kg RAT  
LD50 DERMAL .....NO DATA  
LC50 INHALATION .....NO DATA



ABBREVIATIONS USED . . . . . ABBREVIATIONS USED THROUGHOUT THIS MSDS ARE :  
ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL  
INDUSTRIAL HYGIENISTS  
TWA = TIME WEIGHTED AVERAGE (EXPOSURE  
VALUES )  
STEL = SHORT TERM EXPOSURE LIMITS  
OSHA = OCCUPATIONAL SAFETY AND HEALTH  
ADMINISTRATION  
PEL = PERMITTED EXPOSURE LIMITS  
ppm = PARTS PER MILLION  
Mg = MILLIGRAMS  
NIOSH = NATIONAL INSTITUTE FOR OCCUPATIONAL  
HEALTH AND SAFETY  
MSHA = MINE SAFETY AND HEALTH ADMINISTRATION  
lb = POUNDS  
m3 = PER METRE CUBED  
NTP = NATIONAL TOXICOLOGICAL PROGRAM  
g = GRAMS  
ml = MILLILITRE  
RTECS = REGISTRY OF TOXICS EFFECTS OF  
CHEMICAL  
SUBSTANCES (NIOSH)

SECTION 17: LABEL INFORMATION

WARNING/PRECAUTIONS . . . . . HARMFUL IF SWALLOWED. HARMFUL IF INHALED.  
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For Additional Information:

Contact: MSDS Coordinator - Univar USA  
During business hours, Pacific Time - (425) 889-3400

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