

ASTRO PRODUCT CODE # 6099

OXALIC ACID



MATERIAL SAFETY DATA SHEET

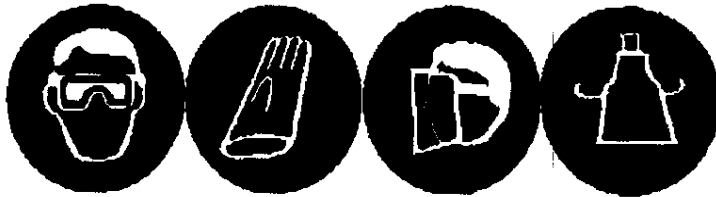
JLM MARKETING, INC.

8675 Hidden River Parkway

Tampa, FL 33637

In case of Emergency call CHEMTREC 1-800-424-9300

OXALIC ACID



Product      MSDS No.  
US205            001

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

SUPPLIER.....JLM MARKETING, INC.  
8675 HIDDEN RIVER PARKWAY  
TAMPA, FL 33637  
PHONE: 813-632-3300

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## OXALIC ACID

FAX: 813-632-3301  
EMERGENCY PHONE NUMBER(S)...CHEMTREC DAY OR NIGHT 1-800-424-9300  
REVISION DATE.....2000/04/10  
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

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS



## 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 ADOMINAL PAIN.

POTENTIAL HEALTH EFFECTS:  
INGESTION.....MAY CAUSE IRRIATION OF MOUTH, ESOPHAGUS,  
STOMACH.  
SKIN CONTACT.....MAY CAUSE IRRITATION.  
INHALATION.....IRRITATING TO THE NOSE AND THROAT. MAY CAUSE  
INFLAMMATION OF THE RESPTORY 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

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### 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

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### 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

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### 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.

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### 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 USING THIS PRODUCT, ESPECIALLY BEFORE EATING, 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.

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### 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 NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND 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.

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### 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

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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

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### 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

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### SECTION 11: TOXICOLOGICAL INFORMATION

LD50 ORAL.....7500 mg/kg RAT  
LD50 DERMAL.....NO DATA  
LC50 INHALATION.....NO DATA  
OTHER.....NO DATA  
AMES TEST RESULTS.....NO DATA

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### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL  
INFORMATION.....NO DATA AT THIS TIME  
CHEMICAL FATE INFORMATION...NO DATA AT THIS TIME

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### SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD.....IN ACCORDANCE WITH FEDERAL, STATE, LOCAL  
REGULATIONS  
REPORTABLE QUANTITY.....NOT APPLICABLE

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NTP = NATIONAL TOXICOLOGICAL PROGRAM

g = GRAMS

ml = MILLILITRE

RTECS = REGISTRY OF TOXICS EFFECTS OF CHEMICAL  
SUBSTANCES (NIOSH)

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**SECTION 17: LABEL INFORMATION**

WARNING/PRECAUTIONS.....HARMFUL IF SWALLOWED. HARMFUL IF INHALED.  
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