

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- A162 500, LACTIC ACID -- 6810-00-063-6145

===== Product Identification =====

Product ID:A162 500, LACTIC ACID

MSDS Date:08/02/2000

FSC:6810

NIIN:00-063-6145

Status Code:A

MSDS Number: CLPVT

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Info Phone Num:

201-796-7100

Emergency Phone Num:201-796-7100

Resp. Party Other MSDS Num.:ACC# 12400

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

Company Name:GIGA INC.

Address:2448 INDUSTRIAL PARK DRIVE

Box:4265

City:MACON

State:GA

ZIP:31208

Country:US

Phone:912-788-2448

Contract Num:SP0450-02

-M-M107  
CAGE:8S706

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Composition/Information on Ingredients  
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Ingred Name:LACTIC ANHYDRIDE  
CAS:97-73-4  
Minumum % Wt:10.  
Maxumum % Wt:15.  
Other REC Limits:NONE LISTED  
OSHA PEL:NONE LISTED  
ACGIH TLV:NONE LISTED

Ingred Name:ERGOCALCIFEROL  
CAS:50-14-6  
RTECS #:KE1050000  
= Wt:99.  
Other REC Limits:NONE LISTED  
OSHA PEL:NONE LISTED  
ACGIH TLV:NONE LISTED

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Hazards Identification  
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LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogeni  
city:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYE: CAUSES SEVERE EYE BURNS. MAY CAUSE IRREVERSIBLE EYE INJURY. SKIN: MAY CAUSE SEVERE SKIN IRRITATION. CAUSES SKIN BURNS. INGESTION: CAUSES GASTROINTESTINAL TRACT BURNS. MA Y CAUSE PERFORATION OF THE DIGESTIVE TRACT. INHALATION: MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT WITH BURNING PAIN IN THE NOSE AND THROAT, COUGHING, WHEEZING, SHORTNESS OF BREATH AND PULMONARY ED EMA.

CHRONIC: NO INFORMATION FOUND.  
Explanation of Carcinogenicity:50-14-6 AND 97-73-4: NOT LISTED BY ACGIH, IARC, NIOSH, NTP OR OSHA.  
Effects of Overexposure:EYE: CAUSES SEVERE EYE BURNS. MAY CAUSE IRREVERSIBLE EYE INJURY. SKIN: MAY CAUSE SEVERE SKIN IRRITATION. CAUSES SKIN BURNS. INGESTION: CAUSES GASTROINTESTINAL TRACT BURNS. MAY CAUSE PERFORATION OF THE DIGESTIVE TRACT. INHALATION: MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT WITH BURNING PAIN IN THE NOSE AND THROAT, COU

GHING, WHEEZING, SHORTNESS OF BREATH AND  
PULMONARY EDEMA.

Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES,  
OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. GET MEDICAL AID  
IMMEDIATELY. DO NOT ALLOW VICTIM TO RUB OR KEEP EYES CLOSED. SKIN:  
GET MEDICAL AID. IMMEDIATELY FLUSH SKIN WITH SOAP AND WATER FOR AT  
LEAST 15 MINUTES WHILE REMOVING CON

TAMINATED CLOTHING AND SHOES.

INGESTION: IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF  
MILK OR WATER . DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL  
ADVICE. INHALATION: GET MEDICAL AID IMMEDIATELY. REMOVE FROM  
EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE  
ARTIFICIAL RESPIRATION. IF BREAT HING IS DIFFICULT, GIVE OXYGEN.

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

Flash Point:NOT AVAILABLE

Autoignition Temp:Autoignition Temp Text:

N/AV

Lower Limits:N/AV

Upper Limits:N/AV

Extinguishing Media:IN CASE OF FIRE, USE WATER, DRY CHEMICAL, CHEMICAL  
FOAM, OR ALCOHOL-RESISTANT FOAM.

Fire Fighting Procedures:WEAR APPROPRIATE PROTECTIVE CLOTHING TO  
PREVENT CONTACT WITH SKIN AND EYES. WEAR A SELF-CONTAINED BREATHING  
APPARATUS (SCBA) TO PREVENT CONTACT WITH THERMAL DECOMPOSITION  
PRODUCTS.

Unusual Fire/Explosion Hazard:NOT PROVIDED

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

Spill Release Proced

ures:USE PROPER PERSONAL PROTECTIVE EQUIPMENT.

BSORB SPILL WITH INERT MATERIAL, (E.G., DRY SAND OR EARTH), THEN  
PLACE INTO A CHEMICAL WASTE CONTAINER.

Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED  
AREA AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED  
CLOTHING AND WASH BEFORE REUSE. USE WITH ADEQUATE

VENTILATION. DO  
NOT GET ON SKIN OR IN EYES. DO NOT INGEST OR INHALE.

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

Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

Protective G

loves:WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN EXPOSURE.

Eye Protection:PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K =

UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT

DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI

= GASTROINTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

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

HCC:C2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=122.2C, 252.F

Melt/Freeze Pt:=17.8C, 64.F

Decomp Temp:Decomp Text:NOT AVAILABLE

Vapor Pres:19MMHG@38C

Vapor Density:N/AV

Spec Gravity:1.2

pH:NOT AVAILABLE

Viscosity:NOT AVAILABLE

Evaporation Rate & Reference:NOT AVAILABLE

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS ODORLESS LIQUID.

Percent Volati

les by Volume:NOT PROVIDED  
Corrosion Rate:NOT PROVIDED

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
OXIDIZING AGENTS, BASES AND REDUCING AGENTS  
Stability Condition to Avoid:INCOMPATIBLE MATERIALS  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE

===== Toxicological Information =====

Toxicological Information:LD50/LC50: CAS# 50-14-6: ORAL, MOUSE: LD50 =  
23700 UG/KG; ORAL, RAT: LD50 =  
10 MG/KG; CAS# 97-73-4:  
CARCINOGENICITY: CAS# 50-14-6: NOT LISTED BY ACGIH, IARC, NIOSH,  
NTP, OR OSHA. CAS# 97-73-4: NOT LISTED BY ACGIH, IARC, NIOSH, NTP,  
OR OSHA. EPIDEMIOLOGY: NO INFORMATION AVAILABLE. TERATOGENICITY:  
NO DATA AVAILABLE. REPRODUCTIVE EFFECTS: NO INFORMATION  
AVAILABLE. NEUROTOXICITY: NO INFORMATION AVAILABLE.  
MUTAGENICITY: NO INFORMATION AVAILABLE. OTHER STUDIES: NONE.

===== Ecological Information =====

Ecological:ECOTOXICITY: NOT AVAILABLE. ENVIRONMENTAL FATE: NO  
INFORMATION REPORTED. PHYSICAL/CHEMICAL: NO INFORMATION  
AVAILABLE. OTHER: NONE.

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

Waste Disposal Methods:CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER  
A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. US EPA  
GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40  
CFR PARTS 261.3. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE  
AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND  
ACCURATE CLASSIFICATION.

===== MSDS Transport Information =====

Transport Information:US DOT SHIPPING NAME: CORROSIVE LIQUID, N.O.S.  
(LACTIC ACID) HAZARD CLASS: 8. UN NUMBER: UN1760 PACKING GROUP:  
II

===== Regulatory Information =====

SARA Title III Information:SARA SECTION 302 (RQ) NONE OF THE CHEMICALS  
IN THIS MATERIAL HAVE AN RQ. SECTION

N 302 (TPQ) CAS# 50-14-6: TPQ =

1000/10,000 POUNDS; RQ = 1000 POUNDS (CALCULATED TPQ CHANGED AFTER TECHNICAL REVIEW AS DESCRIBED IN THE TECHNICAL SUPPORT DOCUMENT) SECTION 313 NO CHEMICALS ARE REPORTABLE UNDER SECTION 313. CLEAN AIR ACT: THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS.

Federal Regulatory Information: CLEAN WATER ACT

: NONE OF THE CHEMICALS

IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA. NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY POLLUTANTS UNDER THE CWA. NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS UNDER THE CWA. OSHA: NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA. TSCA CAS# 50-14-6 IS LISTED ON THE TSCA INVENTORY. CAS# 97-73-4 IS LISTED ON THE TSCA INVENTORY. SECTION 12B NONE OF THE C

CHEMICALS

ARE LISTED UNDER TSCA SECTION 12B. TSCA SIGNIFICANT NEW USE RULE NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA.

State Regulatory Information: CAS# 50-14-6 CAN BE FOUND ON THE FOLLOWING

STATE RIGHT TO KNOW LISTS: NEW JERSEY, PENNSYLVANIA, MASSACHUSETTS. CAS# 97-73-4 IS NOT PRESENT ON STATE LISTS FROM CA, PA, MN, MA, FL, OR NJ. CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.

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Other Information =====

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