

WARDS NATURAL SCIENCE ESTABLISHMENT INC -- LACTIC ACID -- 6810-00-224-4684

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

Product ID:LACTIC ACID

MSDS Date:02/10/1993

FSC:6810

NIIN:00-224-4684

MSDS Number: BYRQK

=== Responsible Party ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692

Country:US

Info Phone Num:716-359-2502

Emergency Pho

ne Num:716-359-2502

CAGE:63759

=== Contractor Identification ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692-9012

Country:US

Phone:(716) 359-2502

CAGE:63759

===== Composition/Information on Ingredients =====

Ingred Name:LACTIC ACID

CAS:50-21-5

RTECS #:OD2800000

Fraction by Wt: 85-90%

Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: BALANCE

Other

REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT): 3730 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CORROSIVE ACTION IN THE HUMAN
ESOPHAGUS AND STOMACH. EYE CONTACT MAY CAUSE BURNS. SKIN CONTACT
MAY CAUSE BURNS. INHALATION OF MIST MAY CAUSE COUGHING AND
IRRITATION OF MUCOUS MEMBRANES.
Explanation o
f Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.
Effects of Overexposure:CORROSIVE BURNS TO ESOPHAGUS AND/OR STOMACH,
EYE BURNS, SKIN BURNS, COUGHING, MUCOUS MEMBRANE IRRITATION.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS
OPEN. G
ET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING.
WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL
ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET
MEDICAL ATTENTION. INGESTION: IF CONSCIOUS, GIVE ONE OR TWO GLASSES
OF WATER,FOLLOWED BY MILK OF MAGNESIA,EGGS,VEGETABLE OIL. CALL
PHYSICIAN.

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

Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguis
hing Media:WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL
Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR SELF CONTAINED
BREATHING APPARATUS AND FULL PROTECTIVE GEAR. USE FLOODING AMOUNTS
OF WATER IN EARLY STAGES OF FIRE.
Unusual Fire/Explosion Hazard:EMITS ACID FUMES WHEN HEATED. FIRE OR
EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS. CAN
REACT VIGOROUSLY WITH OXIDIZING MATERIALS.

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

Spill Release Proc

edures:ABSORB SPILL IN VERMICULITE, SAND, EARTH,
PAPER, OR OTHER ABSORBENT. DISPOSE OF PROPERLY.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PALCE AWAY ROM
STRONG OXIDIZING AGENTS AND FIRE HAZARDS. READ LABEL ON CONTAINER
CAREFULLY.

Other Precautions:DO NOT WEAR CONTACT LENSES WHEN WORKING WITH
CHEMICALS. AVOID CONTACT WITH SKIN, EYES AND MUCOUS MEMB
RANES. FOR
LABORATORY USE ONLY. NOT FOR DRUG, FOOD OR HOUSEHOLD USE. KEEP OUT
OF REACH OF CHILDREN.

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

Respiratory Protection:NONE NEEDED IN NORMAL LABORATORY HANDLING. IF
MISTY CONDITIONS PREVAIL, WORK IN VENTILATION HOOD OR WEAR A
NIOSH-APPROVED RESPIRATOR.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS
REQUIRED TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:RUBBER

Eye Protection:CHEMICAL
SAFETY GLASSES

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO
PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE
AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

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

HCC:C3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=122.2C, 252.F

Me

lt/Freeze Pt:=15.9C, 60.6F

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:1.25

Evaporation Rate & Reference:> 1 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS TO YELLOW SYRUPY LIQUID, NO ODOR

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

Stability Indicator/Materials to Avoid:YES

STROG OXIDIZING AGENTS, IODINES, NITRIC ACID, ALBUMIN, HYDROFLUORIC
ACID.

Stability Condition to Avoid:EXCESSIVE TEMPERATURE AND HEAT.

Ha

zardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. Th

e United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.