

UNITED-GUARDIAN INC -- RENACIDIN(POWDER FOR RECONSTITUTION) -- 6505-00-781-2319
===== Product Identification =====

Product ID:RENACIDIN(POWDER FOR RECONSTITUTION)

MSDS Date:01/23/1991

FSC:6505

NIIN:00-781-2319

MSDS Number: BSFJC

=== Responsible Party ===

Company Name:UNITED-GUARDIAN INC

Address:230 MARCUS BLVD.

City:HAUPPAUGE

State:NY

ZIP:11788-3701

Country:US

Info Phone Num:516-273-0900

Emergency

Phone Num:516-273-0900

Preparer's Name:JAMES A. BELL

CAGE:17983

=== Contractor Identification ===

Company Name:UNITED-GUARDIAN INC

Address:230 MARCUS BLVD.

Box:City:HAUPPAUGE

State:NY

ZIP:11788-3701

Country:US

Phone:516-273-0900

CAGE:17983

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

Ingred Name:CITRIC ACID (TIR STATES 165 GRAMS/300 GRAM TOTAL)

CAS:77-92-9

RTECS #:GE7350000

Other REC Limits:NONE RECOMMENDED

Ingred Name:GLUCONOLACTONE (TIR STATES(25 GRAMS GLUCONLACTONE

/300 GRAMS

TOTAL)

CAS:90-80-2

RTECS #:LZ5184000

Other REC Limits:NONE RECOMMENDED

Ingred Name:MAGNESIUM CARBONATE (TIR STATES 81 GRAMS MGCO3/300GRAMS
TOTAL)

Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES:CAN CAUSE IRRITATION.SKIN:CAN
CAUSE IRRITATION.INHAL:CAN IRRITATE.INGEST:POSSIB

LE IRRITATION OF

MUCOUS MEMBRANES.MAY ACT AS A LAXATIVE.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

Effects of Overexposure:IRRITATION OF EYES,SKIN AND MUCOUS MEMBRANES.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:EYES:FLUSH WITH WATER FOR 15 MINU

TES.SKIN:WASH WITH

WATER.INHAL:REMOVE TO FRESH AIR.INGEST:DO NOT INDUCE
VOMITING.CONSULT A PHYSICIAN.

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

Flash Point:>250F,>121C

Extinguishing Media:WATER,DRY CHEMICAL,CARBON DIOXIDE.

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:MAY EMIT MGO IF HEATED TO DECOMPOSITION
TEMPERATURE.

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

=====

Spill Release Procedures:SOLID:PICK UP WITH OUT MAKING
DUST.SOLUTION:SOAK UP WITH AN INERT ABSORBANT;PLACE IN A PROPER
CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:MATERIEL IS HYGROSCOPIC.STORE IN A
COOL,DRY AREA IN CLOSED CONTAINERS.

Other Precautions:NONE

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

Respiratory Protection:WHERE ENVIRON
MENTAL CONTROLS ARE LACKING OR IN
ENCLOSED SPACES USE A NIOSH APPROVED DUST MASK.

Ventilation:LOCAL EXHAUST

Protective Gloves:RUBBER.

Eye Protection:SAFETY GOGGLES.

Other Protective Equipment:LAB COAT OR WORK APRON.

Work Hygienic Practices:USE GOOD LABORATORY PRACTICES.

Supplemental Safety and Health

NONE

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

HCC:N1

pH: 3SOLN

Solubility in Water:COMPLETE

Appearance and Odor:WHITE POWDER,HYGROSCOPIC;ODOR NOT REPORTED

=====

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

Stability Indicator/Materials to Avoid:YES

WATER,STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:DIRECT CONTACT WITH WATER,HEAT.

Hazardous Decomposition Products:CARBON DIOXIDE,CARBON

MONOXIDE,MAGNESIUM OXIDE.

Conditions to Avoid Polymerization:AVOID DIRECT CONTACT WITH WATER.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH 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. The 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.