

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

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

Other REC Limits:NONE RECOMMENDED

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===== 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.

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===== 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.

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===== 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.

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===== Accidental Release Measures ==

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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

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===== 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.

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