

GNB INC -- LEAD-ACID CELL (ANTIMONY) -- 6140-01-134-5413

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

Product ID:LEAD-ACID CELL (ANTIMONY)

MSDS Date:08/05/1988

FSC:6140

NIIN:01-134-5413

MSDS Number: BRTGW

=== Responsible Party ===

Company Name:GNB INC

Address:1110 HIGHWAY 110

City:MENDOTA HEIGHTS

State:MN

ZIP:55118

Country:US

Info Phone Num:612-681-5000

Emergency Phone Num:612-681-5000

Preparer's Name:JAME

S B. DOE

CAGE:70658

=== Contractor Identification ===

Company Name:CHICAGO INDUSTRIAL TRADING CO

Address:1901 LANDMEIER RD

Box:City:ELK GROVE VILLAGE

State:IL

ZIP:60007

Country:US

Phone:708-981-0090

CAGE:0K4U5

Company Name:GNB INC

Address:1110 HIGHWAY 110

Box:City:MENDOTA HEIGHTS

State:MN

ZIP:55118

Country:US

Phone:612-618-5000

CAGE:70658

Company Name:GNB INC.

Address:1110 HIGHWAY 110

Box:City:SAINT PAUL (MENDOTA HTS)

State:MN

ZIP:55118

Country:US

Phone:612-681-5000

CAGE:0MM77

===== Co

Composition/Information on Ingredients =====

Ingred Name:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
= Wt:51.4
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
= Wt:1.
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG SB/M3; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:LEAD DIOXIDE (LEAD OXIDE)
CAS:1309-60-0
RT
ECS #:OG0700000
= Wt:20.8
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.05 MG/M3

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
= Wt:18.6
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:NON-HAZARDOUS INGREDIENTS
= Wt:8.2
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ORAL RAT LD50 NONE STATED
Routes of

Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE EFFECTS OF OVEREXPOSURE TO LEAD ARE GASTROINTESTINAL UPSET WHICH MAY BE LOSS OF APPETITE, DIARRHEA AND/OR CONSTIPATION WITH CRAMPING, DIFFICULT IN SLEEPING, AND FATIGUE. EXPOSURE WITH SULFURIC ACID MAY LEAD TO ACUTE IRRITATION OF THE SKIN, CORNEAL DAMAGE OF THE EYES, AND IRRITATION OF MUCOUS MEMBRANES.

Explanation of Carcinogenicity:MATERIAL OR ITS COMPONENTS OF THIS ITEM

HAS BEEN TESTED AND SHOW INSUFFICIENT EVIDENCE TO CAUSE CANCER.

Effects of Overexposure:LEAD AND ITS COMPOUNDS MAY CAUSE CHRONIC ANEMIA, DAMAGE TO THE KIDNEYS AND NERVOUS SYSTEM. LEAD MAY ALSO CAUSE REPRODUCTIVE DAMAGE AND CAN AFFECT DEVELOPING FETUSES IN PREGNANT WOMEN. SULFURIC ACID MAY LEAD TO SCARRING OF THE CORNEA AND CHRONIC BRONCHITIS AS WELL AS EROSION OF TOOTH ENAMEL IN MOUTH BREATHERS.

Medical Conditions Aggravated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS

CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER, AND NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH THE SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE, GET MEDICAL ATTENTION PROMPTLY. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. IF ELECTROLYTE COMES INTO CONTACT WITH CLOTHING, REMOVE AND DO NOT WEAR AGAIN UNTIL CLEANED. EYES: IMMEDIATELY RINSE WITH COOL RUNNING WATER. SEEK MEDICAL ATTENTION. INGESTION: GET MEDICAL ATTENTION IMMEDIATELY. INGEST LARGE QUANTITIES OF WATER UNTIL HELP ARRIVES.

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

Flash Point:HYDROGEN-259C

Lower Limits:4.1

Upper Limits:74.2

Extinguishing Media:DRY CHEMICAL

Fire Fighting Procedures:IF ELECTROLYTE IS EXPOSED DURING A FIRE, DO NOT COVER OR SPLASH WITH DRY CHEMICAL.

Unusual Fire/Explosion Hazard:HYDROGEN AND OXYGEN GASES

ARE PRODUCED IN

THE CELLS DURING NORMAL BATTERY OPERATION. TO AVOID CHANCE OF FIRE
KEEP SOURCES OF IGNITION AWAY FROM BATTERY.

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

Spill Release Procedures:REMOVE COMBUSTIBLE MATERIALS AND ALL SOURCES
OF IGNITION. COVER SPILL WITH SODA ASH (SODIUM CARBONATE) OR
QUICKLIME (CALCIUM OXIDE). MIX WELL. COLLECT RESIDUE AND PLACE IN A
DRUM. DO NOT RELEASE UNNEUTRALIZED ACID.

Neutralizing Agent:SODIUM CARBONATE OR QUICKLIME (CALCIUM OXIDE).

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

Handling and Storage Precautions:AVOID DROPPING OR BUMPING CELLS. DO
NOT STORE CELLS ABOVE 130F. MAINTAIN CHARGE AND ELECTROLYTE IN
STORED CELLS.

Other Precautions:STORE LEAD/ACID BATTERIES WITH ADEQUATE VENTILATION.
NEVER RE-CHARGE BATTERIES IN AN UNVENTILATED, ENCLOSED SPACE. DO
NOT SHORT CIRCUIT CELL AS THIS CAN RESULT IN EXPLOSION AND/OR CELL
DAMAGE.

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

Respiratory Protection:NONE REQUIRED.

Ventilation:GOOD ROOM VENTILATION IS REQUIRED.

Protective Gloves:RUBBER

Eye Protection:GOGGLES OR FACE SHIELD

Other Protective Equipment:RUBBER BOOTS, RUBBER APRON, AND POLYESTER
CLOTHING.

Work Hygienic Practices:FOLLOWING CONTACT WITH INTERNAL BATTERY
COMPONENTS, WASH HANDS THOROUGHLY BEFORE EATING, DRINKING OR
SMOKING.

Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

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

HCC:Z4

Solubility in Water:SULFURIC ACID ONLY

Appearance and Odor:BATTERY WITH PLASTIC CASE MATERIAL, ODORLESS

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

Stability Indicator/Materials to Avoid:YES
NONE STATED BY THE MANUFACTURER.

Stability Condition to Avoid:SPARKS AND OTHER SOURCES OF IGNITION.

EXCESSIVE OVERCHARGINGWHICH CAN GENERATE SULFUR OXIDES, HYDROGEN
SULFIDE.

Hazardous Decomposition Products:THERMAL DECOMPOSITION

MPOSITION RELEASES SULFUR
OXIDE, HYDROGEN SULFIDE, AND STIBINE.

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.
NEUTRALIZED ELECTROLYTE MAY BE DISPENSED IN SEWER SYSTEM IF LOCAL
REGULATIONS PERMIT. DELIVER DISCARDED CELLS TO QUALIFIED BATTERY
WASTE HANDLING SERVICE.

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