

GNB INCORPORATED -- BATTERY ELECTRIC STORAGE,WET -- 6140-01-247-7760

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Product Identification
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Product ID:BATTERY ELECTRIC STORAGE,WET

MSDS Date:04/15/1986

FSC:6140

NIIN:01-247-7760

MSDS Number: BNNJP

=== Responsible Party ===

Company Name:GNB INCORPORATED

Address:1110 HIGHWAY 110

City:MENDOTA HEIGHTS

State:MN

ZIP:55118

Country:US

Info Phone Num:612-681-5000/FAX -5143

Emergency Phone Num

:612-681-5000

CAGE:OMM77

=== Contractor Identification ===

Company Name:CELL ENERGY INC

Address:3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706

Country:US

Phone:916-484-7974

CAGE:1U269

Company Name:GNB BATTERIES INC

Box:43140

City:ST PAUL

State:MN

ZIP:55164

Country:US

Phone:612-681-5000

CAGE:4X342

Company Name:GNB INCORPORATED

Address:1110 HIGHWAY 110

City:MENDOTA HEIGHTS

State:MN

ZIP:55118

Country:US

Phone:612-681-5000

CAGE:OMM77

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Composition/Information

on Ingredients =====

Ingred Name:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 50%
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:SULFURIC ACID (SARA III) AND WATER
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 27%
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

===== Hazards Identification
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LD50 LC50 Mixture:TLV FOR SULFURIC ACID IS 1 MG/M3.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-SULFURIC ACID MIST/VAPOR MAY
CAUSE SEVERE RESPIRATORY IRRITATION.LEAD DUST/FUMES MAY CAUSE
IRRITATION.EYE/SKIN:ACID CAN CAUSE SEVERE
IRRITATION,BURNS,PAIN,ULCERATION,CORNEAL DAMAGE,BLINDNESS.ORA
L:ACID CAN CAUSE SEVERE IRRITATION & PAIN.LEAD CAUSES
VOMITI
NG,SEVERE CRAMPING.CHRONIC-ANEMIA,NEUROPATHY,KIDNEY DAMAGE.
Effects of Overexposure:SULFURIC ACID MIST/VAPOR MAY CAUSE SEVERE
RESPIRATORY IRRITATION. LEAD DUST/FUMES MAY CAUSE IRRITATION. ACID
CAN CAUSE SEVERE EYE/SKIN IRRITATION, BURNS, PAIN, ULCERATION,
CORNEAL DAMAGE, BLINDNESS. O RALLY, ACID CAN CAUSE SEVERE
IRRITATION& PAIN. LEAD INGESTION CAUSES VOMITING, SEVERE ABDOMINAL
CRAMPING.
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS OR EYE P

PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY
FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE ACID AND/OR
LEAD.

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

First Aid:GET MEDICAL ATTENTION IMMEDIATELY.EYE/SKIN:IMMEDIATELY FLUSH
WITH WATER FOR AT LEAST 15 MINUTES.HOLD EYELIDS OPEN.INHALED:REMOVE
TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.ORAL:DO NOT INDUCE
VOMITING .IF CONSCIOUS,DRINK LARGE AMOUNT OF WATER/MILK.CALL A
PHYSICIAN IMMEDIAT
ELY.NEVER GIVE ANYTHING BY MOUTH TO AN
UNCONSCIOUS PERSON.

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

Lower Limits:4.1(FOR H2)

Upper Limits:74.2(FOR H2)

Extinguishing Media:DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE
EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Expl

losion Hazard:HIGHLY FLAMMABLE HYDROGEN GAS IS
GENERATED DURING CHARGING AND OPERATION OF BATTERIES. KEEP SPARKS
AND OTHER SOURCES OF IGNITION AWAY. DO NOT SHORT THE BATTERY.

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

Spill Release Procedures:WEAR ACID-RESISTANT CLOTHING, BOOTS, GLOVES
AND FACE SHIELD. VENTILATE AREA. STOP FLOW OF MATERIAL.
CONTAIN/ABSORB SPILLS WITH DRY SAND, EARTH, VERMICULITE. CAREFULLY
NEUTRALIZE WITH SODA ASH, SODIUM BICARBONAT
E, LIME. DO NOT
DISCHARGE TO SEWER.

Neutralizing Agent:SODA-ASH, SODIUM BICARBONATE, LIME

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

Handling and Storage Precautions:STORAGE-STORE IN
COOL,DRY,WELL-VENTILATED AREAS WITH IMPERVIOUS SURFACES.STORE UNDER
ROOF,NEAR WATER SUPPLY,AWAY FROM FIRE,SPARKS & HEAT.

Other Precautions:DANGER- CONTAINS SULFURIC ACID. DO NOT GET IN EYES,
ON SKIN OR ON CLOTHING. DO NOT BREATHE MISTS. USE WITH ADEQUATE
VENTILATION. WA

SH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM REACH
OF CHILDREN.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION
CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH
APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

Ventilation:USE MECHANICAL (GENERAL) OR LOCAL EXHAUST VENTILATION TO
MEET TLV REQUIREMENTS.

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GOGGLES WITH OP
TIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND ACID-RESISTANT APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:Z4

pH: