

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

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

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

===== Composition/Information o

n 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
VOMITIN
G,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 PR

OBLEMS 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 IMMEDIATE
LY.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/Explo
sion 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 BICARBONATE
, 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. WAS

H 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 OPT
IONAL 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: