

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 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: