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GNB INC -- 17FT-90 LEAD ACID BATTERY -- 6140-00-185-6714
========== Product Identification ==========

Product ID:17FT-90 LEAD ACID BATTERY
MSDS Date:08/16/1996
FSC:6140
NIIN:00-185-6714
MSDS Number: CBRWJ
=== 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 OR 612-681-5281
Emergency Phone Num:800-424-9300 CHEM
TREC
Preparer's Name:RICHARD B. CROWELL
CAGE:70658
=== Contractor Identification ===
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:JOINT AND CLUTCH SVC INC. DIV OF MIDWAY
Box:UNKNOW
CAGE:5P322

========== Composition/Information on Ingredients ==========

Ingred Name:LEAD (SARA 313) (CERCLA)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 27-34%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE

1910.1025
ACGIH TLV:0.05MG/M3, A3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:LEAD OXIDE
CAS:1309-60-0
RTECS #:OG0700000
Fraction by Wt: 39-48%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3 (PB)
ACGIH TLV:0.15 MG/M3 (PB)

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 11-23%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:POLYPROPYLENE (CAS
E)
CAS:9003-07-0
RTECS #:TR5000000
Fraction by Wt: 6-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER OR BUTADIENE-STYRENE POLYMER (RUBBER)
CAS:9003-55-8
RTECS #:WL6478000
Fraction by Wt: 6-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYETHYLENE (MFR GAVE CAS FOR PVC: 9002-86-2) (PLATE
SEPARATOR MATERIAL)
CAS:9002-88-4
RTECS #:TQ3325000
Fraction by Wt: 1-2%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50

Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SULFURIC ACID MIST MAY CAUSE RESPIRATORY IRRITATION; EYE IRRITATION. CONTACT WITH SKIN MAY CAUSE SEVERE IRRITATION, BURNS, ULCERATION. INGESTION OF SULFURIC ACID MAY CAUSE SEVERE IRRITATION OF MOUTH, THROAT, ESOPHAGUS & STOMACH; LEAD COMPOUNDS MAY CAUSE SEVERE GI TRACT IRRITATION/SYSTEMIC EFFEC
TS.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:INHALED-SULFURIC ACID MAY CAUSE SEVERE SKIN IRRITATION, BURNS, DAMAGE TO CORNEA & POSSIBLE BLINDNESS, UPPER RESPIRATORY IRRITATION. LEAD COMPOUNDS MAY CAUSE ABDOMINAL PAIN, NAUSEA, HEADACHES, VOMITING , DIARRHEA, SEVERE CRAMPING, DIFFICULTYSLEEPING.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR 15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP & WATER. INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL RE SPIRATION AS NEEDED. INGESTED-DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LOTS OF WATER.

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

Lower Limits:4.65 (H2)
Upper Limits:93.9 (H
2)
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM.
Fire Fighting Procedures:IF BATTERIES ON CHARGE; TURN OFF POWER. USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WEAR ACID RESISTANT CLOTHING.
Unusual Fire/Explosion Hazard:HYDROGEN & OXYGEN GASES ARE GENERATED DURING NORMAL BATTERY OPERATIONS.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION AND COMBUSTIBLE MATERIALS. STOP FLOW AND

CONTAIN SPILL. NEUTRALIZE WITH
SODA LIME OR QUICK LIME. SCOOP UP AND PLACE IN A CONTAINER FOR LATER DISPOSAL. DISPOSE OF AS H AZARDOUS WASTE.
Neutralizing Agent:SODA ASH OR QUICK LIME.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE. AVOID PHYSICAL DAMAGE. MAKE CERTAIN VENT CAPS ARE ON TIGHTLY. USE BATTERY CARRIER TO LIFT BATTERY.
Other Precautions:DO NOT ALLOW METALLIC MATERIALS TO SIMULTANEOUSLY CONTACT BOTH THE POSITIVE TERMINALS OF THE BATTERIES. AVOID CONTACT WITH INTERNAL COMPONENTS OF THE BATTERIES.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ACID MIST CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, A S REQUIRED. USE IAW 29 CFR 1910.134.
Ventilation:STORE AND HANDLE LEAD ACID
BATTERIES IN WELL-VENTILATED
AREAS.
Protective Gloves:PVC, NEOPRENE, RUBBER.
Eye Protection:CHEMICAL SPLASH GOGGLES & FACESHIELD.
Other Protective Equipment:ACID RESITANT APRON. IMPERVIOUS CLOTHING IF SEVERE CONTACT HAZARD WITH ACID EXISTS. EYE WASH & EMERGENCY DELUGE SHOWER.
Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health
NOTE: PHYSICAL CHARACTERISTICS ARE FOR TH
E SULFURIC ACID ELECTROLYTE.

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

HCC:N1
Boiling Pt:B.P. Text:229F,109C
Vapor Pres:10
Vapor Density:>1
Spec Gravity:1.23
Evaporation Rate & Reference: