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GNB TECHNOLOGIES, AUTOMOTIVE BATTERY DIVISION -- LEAD ACID BATTERY

6140-01-372-6218

Product ID:LEAD ACID BATTERY

MSDS Date:08/01/1998

FSC:6140

NIIN:01-372-6218

Status Code:A

MSDS Number: CJQYD === Responsible Party ===

Company Name: GNB TECHNOLOGIES, AUTOMOTIVE BATTERY DIVISION

Address:375 NORTHRIDGE RD

City: ATLANTA

State:GA

ZIP:30350

Country:US

Info Phone Num:

770-673-2470

Emergency Phone Num:770-673-2470

Preparer's Name: STEVE EMMONS/R THOMPSON

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO368

=== Contractor Identification ===

Company Name: GNB TECHNOLOGIES, AUTOMOTIVE BATTERY DIVISION

Address:375 NORTHRIDGE RD

Box:City:ATLANTA

State:GA ZIP:30350 Country:US

Phone:770-673-2470

CAGE:TO368

Company Name: MITEL, INC

Address: 205 VAN BUREN STREET SUITE 400

Box:City:HERNDON

State:VA ZIP:20170 Country:US

Phone:703-736-3207/FX703904-0565

CAGE:5R478

====== Comp

osition/Information on Ingredients ========

Ingred Name:LEAD CAS:7439-92-1

RTECS #:OF7525000

Minumum % Wt:27.

Maxumum % Wt:34.

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.15 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:LEAD OXIDES

CAS:1309-60-0

RTECS #:OG0700000

Minumum % Wt:39.

Maxumum % Wt:48.

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.15 MG/M3

Ingred Name:ELECTROLYTE (SULFURIC ACID AND WATER)

CAS:7664-93-9

RTECS #:WS5600000

Minumum % Wt:11.

Maxumum % Wt:23.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

ACGIH S

TEL:3 MG/M3

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: POLYPROPYLENE (CASE MATERIAL: THIS AND NEXT INGREDIENTS)

CAS:9003-07-0

RTECS #:UD1842000

Minumum % Wt:6.

Maxumum % Wt:10.

Ingred Name: HARD RUBBER

CAS:9003-55-8

RTECS #:WL6478000

Minumum % Wt:6.

Maxumum % Wt:10.

Ingred Name:PLATE SEPARATOR MATERIAL: POLYETHYLENE

CAS:9002-86-2

RTECS #:KV0350000

Minumum % Wt:1.

Maxumum % Wt:2.

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

Routes of Entry: Inhalation:YES S

kin:YES Ingestion:YES

Health Hazards Acute and Chronic:INHALATION: HIGH LEVEL OF SULFURIC ACID VAPORS/MIST MAY CAUSE SEVERE RESPIRATORY IRRITATION. SKIN CONTACT: SULFURIC ACID MAY CAUSE SEVERE IRRITATION, BURNS AND ULCERATION. NOT READILY ABSORBED THROUGH SKIN. EYE CONTACT: SULFURIC ACID VAPORS/MIST CAN CAUSE SEVERE IRRITATION, BURNS, CORNEA DAMAGE AND POSSIBLE BLINDNESS. LEAD MAY CAUSE IRRITATION. INGESTION: SULFURIC ACID MAY CAUSE SEVERE IRRITATION OF MOUTH, THRO

AT, ESOPHAGUS AND STOMACH. LEAD COMPOUNDS MAY CAUSE ABDOMINAL PAIN, NAUSEA, HEADACHES, VOMITING, DIARRHEA, SEVERE CRAMPING. INGESTION SHOULD BE TREATED BY PHYSICIAN.

Explanation of Carcinogenicity:LEAD HAS BEEN TESTED FOR ABILITY TO CAUSE CANCER. THE RESULTS SHOWED THAT THERE IS INSUFFICIENT EVIDENCE TO SHOW THAT LEAD CAN OR CANNOT CAUSE CANCER.

Effects of Overexposure:ACUTE EFFECTS: SULFURIC ACID MAY CAUSE SEVERE SKIN IRRITATION, BURNS, DAMAGE TO CORNEA AND POSSIBLE BLINDNES S AND

UPPER RESPIRATORY IRRITATION. LEAD COMPOUNDS MAY CAUSE ABDOMINAL PAIN, NAUSEA, HEADACH ES, VOMITING, DIARRHEA, SEVERE CRAMPING AND DIFFICULTY IN BREATHING. CHRONIC EFFECTS: SULFURIC ACID MAY LEAD TO SCARRING OF CORNEA, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES AND POSSIBLE EROSIO N OF TOOTH ENAMEL. LEAD COMPOUNDS MAY CAUSE ANEMIA, DAMAGE TO KIDNEYS AND NERVOUS SYSTEM. MAY CAUSE REPRODUCTIVE CHANGES IN BOTH MALES AND FEMALES.

=========		Firs			
t Aid Measures	=========	=====	-==	:===	==

First Aid:INHALATION: SULFURIC ACID: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. LEAD COMPOUNDS: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND LIPS. CONSULT PHYSICIAN. SKIN: SULFURIC ACID: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. LEAD COMPOUNDS ARE NOT ABSORBED THROUGH THE SKIN. EYES: SULFURIC ACID AND LEAD COMPOUNDS: FLUSH IMMEDIATELY WITH WATER FOR AT LEAST15 M

INUTES, THEN CONSULT

PHYSICIAN. INGESTION: SULFURIC ACID: GIVE LARGE QUANTITIES OF WATER - DO NOT INDUCE VOMITING - THEN CONSULT A PHYSICIAN.. LEAD COMPOUNDS: CONSULT A PHYSICI AN.

Lower Limits: 4.65 (H2)

Upper Limits:93.9

Extinguishing Media: CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedures:IF BATTERIES ON CHARGE, TURN OFF POWER.USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WATER APPLIED TO ELECTROL

YTE GENERATES HEAT AND CAUSES IT TO SPLATTER.WEAR ACID RESISTANT CLOTHING.

Unusual Fire/Explosion Hazard:HYDROGEN AND OXYGEN GASES ARE PRODUCED DURING NORMAL BATTERY OPERATION OR WHEN ON CHARGE(HYDROGEN IS HIGHLY FLAMMABLE AND OXYGEN SUPPORTS COMBUSTION).THESE GASES ENTER THE AIR THROUGH THE VENT CAPS. TO AVOID RISK OF EXPLOSION,KEEP SPARKS AND OTHER SOURCES OF IGNITION AWAY FROM BATTERY.

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

Spill Release Pro

cedures:REMOVE COMBUSTIBLES AND SOURCES OF IGNITION.

STOP FLOW AND CONTAIN SPILL BY DIKING WITH SODA ASH (SODIUM CARBONATE) OR QUICK LIME (CALCIUM OXIDE). CAREFULLY NEUTRALIZE SPILL WITH SODA ASH, ETC. COLLEC T RESIDUE AND PLACE IN A DRUM WITH A LABEL SPECIFYING "CONTAINS HAZARDOUS WASTE". IF BATTERY IS LEAKING, PLACE IT IN A HEAVY DUTY PLASTIC BAG. WEAR PROPER EQUIPMENTS. DO NOT RELEASE UNNEUTRALIZED ACID

Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICK LIME (CALCIU

OXIDE)

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

Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS. IF CONCENTRATIONS OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH OR OSHA APPROVED RESPIRATORY PROTECTION.

Protective Gloves: RUBBER OR PLASTIC ACID RESISTANT GLOVES WITH ELBOW LENGTH GAUNTLET.

Eye Protection: CHEMICAL SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment:ACID RESISTANT APRON.UNDER SEVERE EXPOSURE OR EMERGENCY C

ONDITIONS, WEAR ACID RESISTANT CLOTHING AND BOOTS.

Work Hygienic Practices:MAKE CERTAIN VENT CAPS ARE ON TIGHTLY. PLACE MINIMUM OF 2 LAYERS OF CARBOARD BETWEEN LAYERS OF BATTERIES. DO NOT STACK MORE THAN 3 LAYERS HIGH.

Supplemental Safety and Health

DO NOT ALLOW METALLIC MATERIALS TO SIMULTANEOUSLY CONTACT BOTH THE POSITIVE AND NEGATIVE TERMINALS OF THE BATTERIES. USE BATTERY CARRIER TO LIFT A BATTERY OR PLACE HANDS ON OPPOSITE CORNERS TO AVOID SPILLING ACID THROUGH THE VEN

TS. AVOID CONTACT WITH INTERNAL COMPONENTS OF THE BATTERY.

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

HCC:C1

Boiling Pt:=109.4C, 229.F

B.P. Text:TO 248F

Vapor Pres:10 @ 20C/68F

Vapor Density:>1

Spec Gravity: 1.230-1.350

Evaporation Rate & Dr. Reference: