

GENERAL BATTERY CORP -- LEAD-ACID BATTERY -- 6140-01-037-1357

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

Product ID:LEAD-ACID BATTERY

MSDS Date:07/01/1991

FSC:6140

NIIN:01-037-1357

MSDS Number: BRJKR

=== Responsible Party ===

Company Name:GENERAL BATTERY CORP

Address:645 PENN STREET

Box:14205

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0527

Emergency Phone Num:215-378-0527

CAGE

:06810

=== Contractor Identification ===

Company Name:BATTERY BARN THE

Address:124 E WASHINGTON ST

Box:City:PETERSBURG

State:VA

ZIP:23803

Country:US

Phone:804-862-3425

CAGE:0ALN9

Company Name:EXIDE CORP.-GENERAL BATTERY CORP

Address:645 PENN STREET

Box:City:READING

State:PA

ZIP:19601

Country:US

Phone:215-378-0527/800-424-9300(CHEMTREC)

CAGE:08163

Company Name:GENERAL BATTERY CORPORATION

Box:1262

City:READING

State:PA

ZIP:19603

Country:US

Phone:215 378-0500

CAGE:06810

===== Composition/

Information on Ingredients =====

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 60%

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:ANTIMONY (SARA III)

CAS:7440-36-0

RTECS #:CC4025000

Fraction by Wt: 2%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG SB/M3; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA III)

CAS:7440-38-

2

RTECS #:CG0525000

Fraction by Wt: 0.2%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.5 MG/M3 (AS)

ACGIH TLV:0.01,A1 MG/M3; 9394

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:CALCIUM, METAL

CAS:7440-70-2

RTECS #:EV8040000

Fraction by Wt: 0.2%

Other REC Limits:NONE SPECIFIED BY M.

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 10-30%

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

Ingred Name

:POLYPROPYLENE
Fraction by Wt: 5-10%
Other REC Limits:NONE SPECIFIED

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 0.2%
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE:INHALATION OF ACID VAPORS MAY
CAUSE SEVERE IRRITATION OR BU
RNS OF THE RESPIRATORY SYSTEM,
PULMONARY EDEMA, OR LUNG INFLAMMATION. MAY CAUSE SEVERE BURNS TO
SKIN OR EYES. INGESTION MAY CAUSE SEVER E BURNS TO MOUTH, THROAT,
AND STOMACH. MAY AFFECT KIDNEY FUNCTION. CHRONIC:MAY DAMAGE
LUNGS,TEETH EROSION.
Explanation of Carcinogenicity:ARSENIC IS LISTED BY IARC, NTP, & OSHA
AS A CARCINOGEN. LEAD IS CONSIDERED A PROBABLE CARCINOGEN.
Effects of Overexposure:ACID:SEVERE IRRITATION OR BURNS TO EYES, NOSE
AND THROAT. DENTAL EROSION, NAUSEA
AND VOMITING. LEAD:STOMACH
CRAMPS, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP
DISTURBANCES AND IRRITABILITY, ANEMIA AND NERVE DAMAGE.
Medical Cond Aggravated by Exposure:PULMONARY CONDITIONS, SKIN
DISEASES, LIVER, KIDNEY AND NEUROLOGIC DISEASES.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING.
GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER
FOR 15 MINUT
ES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:
REMOV E CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR 15
MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE
NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Lower Limits:4.1(FOR H2)
Upper Limits:74.2(FOR H2)
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:IF ON CHAR

GE, SHUT OFF POWER. WATER APPLIED TO
ACID GENERATES HEAT AND CAUSES IT TO SPLATTER. WEAR ACID RESISTANT
CLOTHING.

Unusual Fire/Explosion Hazard:WILL GENERATE HYDROGEN ON OVERCHARGE. MAY
EXPLODE IN FIRE AND PRODUCE HAZARDOUS FUMES AND OXIDE OF SULFUR
GASES.

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

Spill Release Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO SO WITHOUT RISK.
DO NOT USE WA
TER. NEUTRALIZE SPILL AND/OR WASHINGS WITH SODA ASH OR
LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER.
Neutralizing Agent:J.T.BAKER'S NEUTRASORB (R) OR TEAM 'LOW NA+' ACID
NEUTRALIZERS ARE RECOMMENDED.

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

Handling and Storage Precautions:STORE IN CORROSION-PROOF AREA. KEEP
BATTERIES OUT OF SUN AND AWAY FROM OPEN FLAMES. ISOLATE FROM
INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT GET IN EYES,
ON SKIN OR ON CLOTHING. DO NOT
BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE
CAUTIOUSLY. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER
HANDLING. IN CASE OF SPILL NEUTRALIZE WITH SODA ASH OR LIME.

===== 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 OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.
INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

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

Supplemental Safety and Health
AVOID PROLONGED OR REPEA

TED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:C1

Boiling Pt:=95.C, 203.F

B.P. Text:(ACID)

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.23-1.35(ACID)

pH: