

EXIDE CORP -- LEAD/ACID BATTERY -- 6140-00-984-0159

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

Product ID:LEAD/ACID BATTERY

MSDS Date:05/01/1991

FSC:6140

NIIN:00-984-0159

MSDS Number: BMDTH

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN ST

Box:14205

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0798

Emergency Phone Num:215-378-0757, CHEMTREC 800-424-9300

CAGE:

20038

=== Contractor Identification ===

Company Name:BATTERY OUTLET OF HAMPTON INC

Address:2815 GEORGE WASHINGTON HWY

Box:City:TABB

State:VA

ZIP:23602

Country:US

Phone:804-867-8280

CAGE:0FTM0

Company Name:ENERSYS INC

Address:8306PATUXENT RANGE RS SUITE 103

Box:City:JESSUP

State:MD

ZIP:20794-8609

Country:US

Phone:301-381-8500 OR 215-378-0757

CAGE:90660

Company Name:EXIDE CORP

Address:645 PENN STREET

Box:14205

City:READING

State:PA

ZIP:19612-4205

Country:US

Phone:610-378-0500/0798

CAGE:20038

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Composition/Information on Ingredients
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Ingred Name:LEAD
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 9091
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY
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/M3; 9091
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC
CAS:7440-38-2
RTECS #:CG0
525000
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: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

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 10-3

0%
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 =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:MFR LISTED HAZARDS FROM SULFURIC ACID
AND FROM LEAD. SULFURIC:SEVERE IRRITATION TO CORROSION OF ALL BODY
TISSUES. LEAD:MAY CAUSE IRRITATION. IS TOXIC SYSTE
MICALLY CAUSING
ABDOMINAL DISTRESS, ANEMIA, N EUROPAYTHY KIDNEY DAMAGE.
Explanation of Carcinogenicity:ARSENIC IS LISTED BY IARC, NTP, & OSHA
AS A CARCINOGEN. LEAD IS CONSIDERED A PROBABLE CARCINOGEN BY NTP.
Effects of Overexposure:EYE:SEVERE IRRITATION,BURNS. SKIN: IRRITATION,
BURNS, POSSIBLE ULCERATION FROM CHRONIC EXPOSURE. INHALED:
RESPIRATORY ITTITATION, SEVERE WITH SULFURIC FUMES. INHALED LEAD
FUMES MAY BE TOXIC. INGESTED: SEVERE G/I DISTRESS. CORROSION FROM
SULFURI
C ACID. SYSTEMIC TOXICITY FROM LEAD, PRODUCING NAUSEA
VOMITING, DIARRHEA.
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 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:
REMOV E CONTAMINAT
ED 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 =====

Flash Point:NONFLAMMABLE
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 CHARGE, SHUT OFF POWER. WATER APPLIED TO
ACID GENER

ATES 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:STOP FLOW, CONTAIN/ABSORB WITH DRY SAND, ETC. DO NOT USE COMBUSTABLE ABSORBENTS. IF POSSIBLE, CAREFULLY NEUTRALIZE. WEAR ACID-RESISTANT CLOTHING,BOOTS,GLOVES,FACE SHIELD.

DO NOT ALLOW DISCHARGE OF UNN EUTRALIZED ACID TO SEWER.

Neutralizing Agent:SSSODIUM BICARBONATE, SODA ASH LIME.

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

Handling and Storage Precautions:STORE IN COOL DRY, WELL VENTILATED CORROSION-PROOF AREA WITH SPILL CONTAINMENT.BATTERY S SHOULD BE STORED UNDER ROOF AND AWAY FROM ADVERSE WEATHER.

Other Precautions:SEPARATE FROM INCOMPATIBLES. STORE AND HANDLE ONLY IN AREAS WITH ADEQUATE WATER SUPPLY AND SPILL CONTROL. A

VOID DAMAGE TO

CONTAINERS.KEEP AWAY FROM FIRE, SPARKS, HEAT.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CONCENTRATIONS OF SULFURIC ACID EXCEED PEL, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION.

Ventilation:WELL VENTILATED AREA. IF MECHANICAL (GENERAL) EXHAUST IS USED ITS COMPONENTS SHOULD BE ACID RESISTANT.

Protective Gloves:RUBBER OR PLASTIC GLOVES W/ GAUNTLET

Eye Protection:SAFETY GO

GOGGLES OR FACE SHIELD

Other Protective Equipment:ACID RESISTANT APRON. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID RESISTANT CLOTHING AND BOOTS.

Work Hygienic Practices:HANDLE BATTERIES CAREFULLY TO AVOID SPILLS.

MAKE CERTAIN VENT CAPS ARE ON SECURELY. AVOID CONTACT WITH INTERNAL PARTS

Supplemental Safety and Health

IN AREAS WHERE SULFURIC ACID IS HANDLED IN CONCENTRATIONS GREATER THAN 1%, EMERGENCY EYEWASH STATIONS AND SHOWERS SHOULD BE PROVIDED, WITH UNLIMITED WATER

ATER SUPPLY.

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

HCC:Z7

Boiling Pt:=95.C, 203.F

B.P. Text:203F(ACID)

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.23-1.35(ACID)

pH: