

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-031-6881

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

Product ID:LEAD-ACID BATTERY

MSDS Date:05/01/1991

FSC:6140

NIIN:01-031-6881

MSDS Number: BLVBT

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN ST

Box:14205

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0757

Emergency Phone Num:215-378-0798

CAGE:20038

=== Contractor Identification ===

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

Company Name:EXIDE CORP (319-378-0789)

Address:GRANT ST RR 1

Box:UNKNOW

City:MANCHESTER

State:PA

ZIP:52057

Country:US

Phone:319-927-4501/FAX 319-927-5701

CAGE:0RML3

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

===== 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: 2.0%
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

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: 10-30%
Other REC Limits:NONE SPECI

FIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:NO HAZARD- CASE MATERIAL- POLYPROPYLENE, POLYSTYRENE
STYRENE ACRYLONITRILE, ACRYLONITRILE BUTADIENE STYRENE, ETC.
Fraction by Wt: 5-10%
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:BREATHING OF
SULFURIC ACID VAPORS MAY

CAUSE SEVERE RESPIRATORY IRRITATION. INGESTION MAY CAUSE SEVERE
IRRITATION OF MOUTH, THROAT, ESOPHAGUS AND STOMACH. SEVERE
IRRITATION, BURNS TO THE SKIN AND EYES AND CORNEA DAMAGE AND
BLINDNESS TO THE EYES. PROLONGED EXPOSURE CAN CAUSE EROSION OF
TOOTH ENAMEL, INFLAMMATION OF URT.

Explanation of Carcinogenicity:LEAD LIKELY IN ANIMALS AT EXTREME DOSES.
ARSENIC LISTED AS HUMAN CARCINOGEN BY NTP, IARC, OSHA AT HIGH
EXPOSURE ONLY.

Effects of Over

exposure:ACUTE; SULFURIC ACID: SEVERE SKIN IRRITATION,
DAMAGE TO CORNEA, UPPER RESPIRATORY IRRITATION. LEAD: HEADACHE,
FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES AND
WEAKNESS, SLEEP DISTURBANCES AND IRRITABILITY. CHRONIC: EROSION OF
TOOTH ENAMEL, INFLAMMATION OF NOSE, THROAT, BRONCHIAL TUBES,
ANEMIA, NEUROPATHY.

Medical Cond Aggravated by Exposure:OVEREXPOSURE TO SULFURIC ACID MIST
MAY CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS. CONTACT
ON SK
IN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA AND CONTACT
DERMATITIS.

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

First Aid:INHALATION: LEAD- REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND
LIPS; CONSULT PHYSICIAN. SULFURIC: REMOVE FOR FRESH AIR
IMMEDIATELY. INGES: LEAD- CONSULT PHYSICIAN. SULFURIC- GIVE LARGE
QUANTITIES OF WA TER; DO NOT INDUCE VOMITING; CONSULT PHYSICIAN.
SKIN: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES;
REMOVE CONT

AMINATED CLOTHING COMPLETELY, INCLUDING SHOES. EYES:
FLUSH IMMEDIATELY.

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

Lower Limits:4.1 (H₂)

Upper Limits:74.2

Extinguishing Media:USE HALOGEN, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS. WEAR
ACID-RESISTANT CLOTHING. IF BATTERIES ARE ON CHARGE, SHUT OFF
POWER. WATER APPLIED TO ELECTROLYTE HEATS/SPATTERS.

Unusual Fire/Explosion Hazard:HIGHLY FLAMMABLE H

YDROGEN GAS IS

GENERATED DURING CHARGING AND OPERATION OF BATTERIES. AVOID SPARKS
OR OTHER SOURCES OF IGNITION.

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

Spill Release Procedures:STOP FLOW OF MATERIAL, CONTAIN/ABSORB SMALL
SPILLS WITH DRY SAND, EARTH, VERMICULITE. DO NOT USE COMBUSTIBLE
MATERIALS. CAREFULLY NEUTRALIZE WITH SODA ASH, SODIUM BICARBONATE,
LIME, ETC. DO NOT ALLOW DISCHARGE OF UNNEUTRALIZED ACID TO SEWER.

Neutralizing Agent:SODA ASH, S
ODIUM BICARBONATE, LIME, ETC.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED
AREA WITH IMPERVIOUS SURFACES AND ADEQUATE CONTAINEMENT FOR SPILLS.
AVOID DAMAGE TO CONTAINERS.

Other Precautions:KEEP AWAY FROM FIRE, SPARKS AND HEAT. SEPARATE FROM
INCOMPATIBLE MATERIALS. BATTERIES SHOULD BE STORED UNDER ROOF FOR
PROTECTION AGAINST ADVERSE WEATHER CONDITIONS. SEND SPENT BATTERIES
TO A SECO
NDARY LEAD SMELTER FOR RECYCLING.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN
CONCENTRATIONS OF SLUFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE
NIOSH OR NSHA-APPROVED RESPIRATORY PROTECTION.

Ventilation:STORE AND HANDLE IN WELL-VENTILATED AREA. IF MECHANICAL
VENTILATION IS USED, COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves:RUBBER OR PLASTIC ACID-RESISTANT.

Eye Protection:CHEMICAL GOG

GLASSES OR FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

ACID-RESISTANT APRON, AND UNDER SEVERE CONDITIONS, ACID-RESISTANT CLOTHING AND BOOTS

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:C1

Boiling Pt: B.P. Text: 203F, 95C

Vapor Pres: 10

Vapor Density: >1

Spec Gravity: 1.230-1.350

Evaporation Rate & Reference: