

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 Id

entification ===

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

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Composition/Information on Ingredients  
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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:ARSEN  
IC (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  
RTE

CS #: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: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 CARCINO  
GEN BY NTP, IARC, OSHA AT HIGH  
EXPOSURE ONLY.

Effects of Overexposure: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 SKIN 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 WIT

H LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES;  
REMOVE CONTAMINATED CLOTHING COMPLETELY, INCLUDING SHOES. EYES:  
FLUSH IMMEDIATELY.

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

Lower Limits:4.1 (H<sub>2</sub>)

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 HYDROGEN 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, SODIUM 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 SECONDARY LEAD SMELTER FOR RECYCLING.

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

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

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

Protective Glo

ves:RUBBER OR PLASTIC ACID-RESISTANT.

Eye Protection:CHEMICAL GOGGLES 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 B

REATHE 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: