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EXIDE CORPORATION -- 6TL LEAD ACID BATTERY -- 6140-01-051-4900
========== Product Identification ==========

Product ID:6TL LEAD ACID BATTERY
MSDS Date:07/01/1991
FSC:6140
NIIN:01-051-4900
MSDS Number: BMGRL
=== Responsible Party ===
Company Name:EXIDE CORPORATION
Address:645 PENN ST
City:READING
State:PA
ZIP:19601
Country:US
Info Phone Num:215-378-0757
Emergency Phone Num:215-378-0757/800-424-9300(CHEMTREC
)
CAGE:60038
=== 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:BATTERY OUTLET INC
Address:1608 CAMPOSTELLA RD
Box:City:CHESAPEAKE
State:VA
ZIP:23324
Country:US
Phone:757-545-4442
CAGE:0FGN2
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: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:TIMKEN CORP GOVERNMENT SALES BON-17
Address:1835 DUEBER AVE SW
City:CANTON
State:OH
ZIP:44706-2798
Country:US
Phone:330-471-6587/330-471-6470 FAX
CAGE:60038

========== 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, M

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

Ingred Name:CASE MATERIAL
Fraction by Wt: 5-10%
Other REC
Limits:NONE RECOMMENDED

Ingred Name:SHEET MOLDING COMPOUND (GLASS REINFORCED POLYESTER)
Fraction by Wt: 10%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG (H2SO4)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE: BURNS, SEVERE IRRITATION OF
SKIN, EYES, MOUTH, THROAT, ESOPHAGUS AND ST

OMACH; INFLAMMATION OF
BRONCHIAL MEMBRANES. CHRONIC: ERROSION OF TEETH, INFLAMATION OF NOSE, THROAT AND BRONCHIAL TUBES.
Explanation of Carcinogenicity:LEAD IS LISTED BY IARC AND NTP. ARSENIC IS LISTED BY IARC, NTP, AND OSHA.
Effects of Overexposure:INHALATION: CAN CAUSE BURNS OF THE UPPER RESPIRATORY TRACT AND LUNGS. SKIN CONTACT MAY CAUSE BURNS OR LOCALIZED IRRITATION. EYE CONTACT: MAY CAUSE IRRITATION, CORNEAL BURNS AND CONJUCTIVITIS. BLINDNES S MAY RESULT OR SEVERE OR

PERMANENT INJURY. INGESTION: ELECTROLYTE MAY CAUSE BURNS TO THE MOUTH, ESOPHAGUS AND STOMACH.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, RESPIRATORY TRACT OR TEETH MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION: MOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT.GET MEDICAL ATTE
NTION. EYES:
FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMI NATED CLOTHING. WASH WITH PLENTY OF WATER. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR WATER, FOLLOWED BY 2 OUNCES OF MILK OF MAGNESIA (NO CARBONATES).GET MEDICAL ATTENTION.

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

Extinguishing Media:CARBON DIOXIDE, FOAM, DRY CHEMICAL, HALOGEN.
Fire Fighting Procedures:IF BATTERIES ON CHARGE,SHU
T OFF POWER. WATER
APPLIED TO ACID GENERATES HEAT AND CAUSES IT TO SPATTER. USE POSITIVE PRESSURE SCBA. WEAR ACID-RESISTANT CLOTHING.
Unusual Fire/Explosion Hazard:HIGHLY FLAMMABLE AND EXPLOSIVE HYDROGEN GAS IS GENERATED DURING CHARGING AND OPERATION OF BATTERIES. REMOVE ALL IGNITION SOURCES. VENTILATE AREA.

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

Spill Release Procedures:SHOULD A BATTERY BREAK OPEN, ISOLATE AREA. ELECTROLYTE SHOULD BE ABSORBED W

ITH A NON-ORGANIC TYPE ABSORBENT
SUCH AS DRY SAND OR EARTH. AVOID DILUTION WITH WATER. LEAD SPILLED FROM THE BATTERY SHOULD B E VACUUMED, DO NOT SWEEP OR USE COMPRESSED AIR.
Neutralizing Agent:USE SODA ASH OR BAKING SODA TO NEUTRALIZE THE ELECTROLYTE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED AREA WITH IMPERVIOUS SURFACES AND ADEQUATE CONTAINMENT IN THE EVENT OF SPILLS. STOR
E IN A PROTECTED AREA.
Other Precautions:SEPARATE FROM INCOMPATIBLE MATERIALS. STORE AND HANDLE ONLY IN AREAS WITH ADEQUATE WATER SUPPLY AND SPILL CONTROL. AVOID DAMAGE TO CONTAINERS. KEEP AWAY FROM FIRE, SPARKS, AND HEAT. DO NOT SHORT CIRCU IT TERMINALS.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS OF USE, WHEN CONCENTRATIONS OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH OR MSHA
APPROVED RESIRATORY PROTECTION.
Ventilation:GENERAL (MECHANICAL) VENTILATION WITH ACID-RESISTANT COMPONENTS.
Protective Gloves:RUBBER OR PLASTIC ACID-RESISTANT GLOVES.
Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIELD
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFOR
E REUSE.
Supplemental Safety and Health
IF THE BATTERY ROOM IS AIR CONDITIONED AS PART OF AN OVERALL BUILDING SYSTEM, THE EXHAUST AIR FROM THE BATTERY ROOM SHOULD NOT BE RETURNED TO THE AIR DISTRIBUTION SYSTEM. THE ROOM SHOULD HAVE ITS OWN EXHAUST SYSTEM CONNECTED DIRECTLY TO OUTSIDE AIR. HYDROGEN GAS IS LIGHTER THAN AIR AND DIFFICULT TO DETECT.

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

HCC:C1
Boiling Pt:=95.C, 203.F
Vapor Pres:10
Vapor Density:>1
Sp

ec Gravity:1.230-1.350
pH:1
Evaporation Rate & Reference: