

EXIDE CORP -- LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY) -- 6140-00-538-9984

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Product Identification
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Product ID:LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY)

MSDS Date:09/01/1993

FSC:6140

NIIN:00-538-9984

MSDS Number: CDKPW

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN STREET

City:READING (FORMALLY IN HORSHAM)

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:21

5-378-0500

Emergency Phone Num:215-378-0500/800-424-9300(CHEMTREC)

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

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Composition/Information on Ingredients
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Ingred Name:INORGANIC LEAD COMPOUND, SEE INGREDIENTS 2,3,4,5,6.

Fraction by Wt: NA

Other REC Limits:NONE RECOMMENDED

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7

525000
Fraction by Wt: 53%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.05MG/M3, A3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA 313) (CERCLA)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG (SB)/M3; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313) (CERCLA)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.003%
Other REC Limits:NONE RECOMMENDED
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SHA PEL:SEE 1910.1018
ACGIH TLV:0.01 MG/M3, A1; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:CALCIUM, METAL
CAS:7440-70-2
RTECS #:EV8040000
Fraction by Wt: 0.02%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 0.08%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9596

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) (ELECTROLYTE)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 30-40%
Other REC Limits:NONE RECOMMEND

ED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:CASE MATERIAL, INGREDIENTS 9,10.
Fraction by Wt: 5-8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYPROPYLENE
CAS:9003-07-0
RTECS #:TR5000000
Fraction by Wt: NP
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER
Fraction by Wt: NP
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACID:INHAL:BAP/MIST SEVERE RESP
IRRIT.INGEST:SEVERE IRRIT MOUTH/THOAT/ESOPHAGUS/STOMACH.SKIN:SEVERE
IRRIT,BURNS,ULCERATION.EYE:SEVERE IRRIT,BURNS,CORNEA
DMG,BLINDNESS.PB:INHAL:DUST/FUMES IRRIT UPPER R ESP
TRACT/LUNGS.INGEST:ABD PAIN,NAU,VOMIT,DIARR,SEVERE CRAMP,SYST
TOXICITY.EYE:IRRIT.SKIN:NOT ABSORBED.

Explanation of Carcinogenicity:

PER MSDS:IARC:STRONG INORG ACID MIST
W/SULFUR ACID CAT I(DOESN'T APPLY TO BATT
ACID).PB:2B.ARSENIC:NTP/IARC/OSHA @HI LEV

Effects of Overexposure:ACID:SEVERE SKIN IRRIT,DMG TO CORNEA,UPPER RESP
IRRIT.PB:ANEMIA,NEUROPAHTY,PARTICULARLY OF MOTOR NERVES W/WRIST
DROP,KIDNEY DMG,REPRODUCTIVE CHANGES IN BOTH MALES/FEMALES.

Medical Cond Aggravated by Exposure:OVEREXPO TO H2SO4 MSIT MAY CAUSE
LUNG DMG & AGGRAVATE PULM CONDITIONS.SKIN CONTACT W/H2SO4 MAY
AGGRAVATE SKIN DISEASE(

ECZEMA,CONTACT DERM).PB/PB CMPDS CAN
AGGRAVATE SOME FORMS OF KID/LIV/NEURO DISEASE

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First Aid Measures
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First Aid:ACID:INHAL:REMOVE TO FRESH AIR IMMED.DIFF BREATH GIVE
OXY.INEST:GIVE LG QUANT OF WATER.DON'T INDUCE VOMIT.SEE
DR.SKIN:FLUSH W/LG AMTS OF WATER FOR @LEAST 15MINS.REMOVE COTNAMIN
CLOTH/SHOES COMPLETELY. EYE:FLUSH IMEMD W/LG AMTS OF WATER FOR
@LEAST 15MINS.SEE DR.PB:INHAL:REMOVE FROM EXPO,GARGLE,WASH
NOSE/LIPS.SEE
DR.INGEST:SEE DR IMMED.SKIN:WASH IMMED W/SOAP/WATER.

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Fire Fighting Measures
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Flash Point:NA
Autoignition Temp:Autoignition Temp Text:NP
Lower Limits:4.1 HYDROGEN
Upper Limits:74.2
Extinguishing Media:CO2,FOAM,DRY CHEMICAL.
Fire Fighting Procedures:BATT CHARGED SHUT OFF POWER.USE +PRESSURE
SELF-CONTAINED BREATHING APPARATUS.WATER APPLIED TO ELECTROLYTE
GENERATES HEAT-CAUSE TO SPATTER.WEAR ACID-RESIST CLOTH
Unusual Fire/Explosion Hazard:HI FL
AMM H2 GAS GENERATED DURING
CHARGE/BATT OPERATION.AVOID FIRE/EXPLO RISK BY KEEP SPARKS/IGN
SOURCES AWAY FROM BATT.DON'TA LLOW METALLIC MATLS TO (SUPPLEMEN)

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Accidental Release Measures
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Spill Release Procedures:STOP FLOW.CONTAIN/ABSOR W/DRY
SAND,EARTH,VERMICULTIE.DON'T USE COMBUST MATLS.CAREFULLY NEUTRALIZE
W/SODA ASH,SODIUM BICARBONATE,LIME,ETC.WEAR ACID-RESIST PPE.DON'T
ALLOW DISCHARGE OF UNNEUTRALIZ ACID TO SEWER.
Neutralizing Agent
:ACID:SODA ASH,SODIUM BICARBONATE,LIME,ETC.

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Handling and Storage
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Handling and Storage Precautions:STORE IN COOL DRY WELL VENTI AREA
W/IMPERV SURFACES/ADEQUA CONTAINMENT IN EVENT OF SPILL.STORE UNDER
ROOF(PROT FROM ADVERSE WEATHER CONDITIONS).
Other Precautions:SEPARATE FROM INCOMPA MATLS.STRORE/HNDL IN AREAS
W/ADE WATER SUPPLY/SPILL CNTRL.AVOID DMG TO CNTNR.KEEP AWAY FROM
FRINE/SPARK/HEAT.MISUSE OF PROD(OVERCHARGING)MAY RESULT IN

GENERATOR OF SULFURIC ACID MIST.

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

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

Ventilation: STORE/HNDL IN WELL-VENTILATED AREA. IF MECHANICAL VENTILATION IS USED COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves: RUBBER, PLASTIC ACID-RESIST W/ELBOW-LENGTH GAUNT

Eye Protection: CHEM GOGGLES OR FACE SHIELD.

Other Protective Equipment: ACID-RESIST APRON. UNDER SEVERE EXPOSURE/EMERGENCY CONDITIONS WEAR ACID-RESIST CLOTH/BOOTS. EMERGENCY EYEWASH STATIONS, SHOWERS W/H₂O.

Work Hygienic Practices: HNDL BATT CAUT TO AVOID SPILLS. MAKE CERTAIN VENT CAPS ON SECURELY. AVOID INTERNAL CONTACT. WEAR PROT CLOTH WHEN FILLING

Supplemental Safety and Health

FIRE/EXPLO HAZ: SIMULTANEOUSLY CONTACT NEG/POS TERMINALS OF CELL/BATT. FOLLOW MFG'S INSTRUCTION FOR INSTALLATION/SERV.

INCOMPAT: HALOGENATED, POT

ASSIUM

NITRATE, PERMANGANATE, PEROXIDES, NASCENT HYDROGEN, RED AGENTS.

DISPO: EPA, RCRA: SPENT PB-ACID BATT NOT REG AS HAZ WASTE WHEN RECYCLED. SPILL H₂SO₄-D002, RQ/TPQ-1000LBS.

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

HCC: C1

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

Melt/Freeze Pt: M.P/F.P Text: NA

Decomp Temp: Decomp Text: NP

Vapor Pres: 17-11

Vapor Density: >1

Spec Gravity: 1.230-1.350

pH: NP

Viscosity: NP

Evaporation Rate & Reference: