

EXIDE CORP. -- LEAD-ACID BATTERY -- 6140-01-193-6579

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

Product ID:LEAD-ACID BATTERY

MSDS Date:05/01/1991

FSC:6140

NIIN:01-193-6579

MSDS Number: BPYLF

=== Responsible Party ===

Company Name:EXIDE CORP.

Address:645 PENN ST.

Box:14205

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0527

Emergency Phone Num:215-378-0527

CAGE:MO432

=== Contractor Identification ===

Company Name:CHICAGO INDUSTRIAL TRADING CO.

C

AGE:OK4U5

Company Name:EXIDE CORP.

Address:645 PENN STREET

Box:14205

City:READING

State:PA

ZIP:19601-4205

Country:US

Phone:610-378-0500

CAGE:MO432

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:100PPM NIOSH

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SHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9293
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 RECOMMENDED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG SB/M3; 9293
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 RECOMMENDED
OSHA PEL:0.5 MG/M3 (AS)
ACGIH TLV:0.01,A1 MG/M3; 9394
EPA Rpt Qty:1 LB
DOT Rp
t Qty:1 LB

Ingred Name:CALCIUM, METAL
CAS:7440-70-2
RTECS #:EV8040000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9293

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 10-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:POLYP

ROPYLENE (USED AS CASE MATERIAL)
CAS:9003-07-0
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYSTYRENE RESIN (AS A COMPONENT OF THE CASE)
CAS:9003-53-6
Other REC Limits:NONE RECOMMENDED

Ingred Name:ACRYLONITRILE,POLYMER WITH STYRENE (AS A COMPONENT OF THE CASE).
CAS:9003-54-7
RTECS #:AT6978000
Other REC Limits:NONE RECOMMENDED

Ingred Name:ACRYLONITRILE,POLYMER WITH 1,3-BUTADIENE & STYRENE (AS A COMPONENT OF THE CASE)
CAS:9003-56-9
RTECS #:AT6970000
Other REC Limits:NONE RECOMMENDED

Ingred Name:STYRENE POLYMER WITH 1,3-BUTADIENE (AS A PART OF THE CASE)
CAS:9003-55-8
RTECS #:WL6478000
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYVINYL CHLORIDE RESIN (AS A PART OF THE CASE)
CAS:9002-86-2
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYCARBONATE (AS A PART OF THE CASE)
Other REC Limits:NONE RECOMMENDED

Ingred Name:RUBBER,HARD (AS A PART OF THE CASE)
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICA, CRYSTALLINE - FUSED (GEL CELL BATTERIES ONLY)
CAS:60676-86-0
RT
ECS #:VV7328000
Fraction by Wt: 10%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

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

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

LD50 LC50 Mixture:NOT REPORTED
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:INHAL:S

EVERE IRRITATION(UPPER
RESPIRATORY TRACT AND LUNGS).INGEST:(H₂SO₄)SEVERE IRRITATION OF
MOUTH,THROAT,STOMACH.LEAD IS SYSTEMICALLY TOXIC.SKIN:SEVERE
BURNS.EYES:SEVERE IRRITATION,CORNEAL DAMAGE,BL INDNESS.LEAD
POISONING CAN RESULT IN KIDNEY AND REPRODUCTIVE DAMAGE.
Explanation of Carcinogenicity:LEAD IS A CLASS 2B CARCINOGEN.ARSENIC IS
LISTED BY NTP,IARC AND OSHA.
Effects of Overexposure:INGEST:(LEAD)ABDOMINAL
PAIN,CRAMPING,NAUSEA,VOMITING,DIARRHEA.SKIN:(H₂SO₄)BURNS,ULCERATI
ON
S.
Medical Cond Aggravated by Exposure:SULFURIC ACID FUMES CAN AGGRAVATE
PULMONARY CONDITIONS,SKIN DISEAESE(EG.ECZEMA,CONTACT
DERMATITIS).LEAD CAN AGGRAVATE KIDNEY,LIVER AND NEUROLOGICAL
DISEASES.

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

First Aid:INHAL:(LEAD)REMOVE FROM EXPOSURE;GARGLE;WASH NOSE AND
LIPS;CALL PHYSICIAN.(H₂SO₄)REMOVE TO FRESH AIR;RESTORE OR ASSIST
BREATHING IF NEEDED.INGEST:(LEAD)CALL PHYSICIAN.(H₂SO₄)GIVE
WATER.DO NOT
INDUCE V OMITING!CALL PHYSICIAN.SKIN:FLUSH WITH
WATER.REMOVE CONTAMINATED CLOTHING(INCL.SHOES).EYES:FLUSH WITH
WATER FOR 15 MINUTES.CALL PHYSICIAN.

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

Lower Limits:4.1 (H₂ GAS)
Upper Limits:74.2
Extinguishing Media:CARBON DIOXIDE,FOAM,DRY CHEMICAL,HALON.
Fire Fighting Procedures:USE POSITIVE PRESSURE SELF-CONTAINED BREATHING
APPARATUS.WATER APPLIED TO THE ELECTROLYTE CAUSES IT TO
BOIL(SPATTER).WEAR ACID RESISTAN
T CLOTHING.
Unusual Fire/Explosion Hazard:HYDROGEN GAS IS GENERATED DURING
CHARGING.

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

Spill Release Procedures:STOP LEAK.CONTAIN/ADSORB SMALL SPILLS WITH
SAND,EARTH,VERMICULITE.DO NOT USE COMBUSTIBLE MATERIALS.IF
POSSIBLE,NEUTRALIZE(SEE NEUTRALIZERS).WEAR ACID RESISTANT
CLOTHING,BOOTS,GLOVES AND FACE SHIELD.DO NOT ALLOW UNNEUTRALIZED
ACID INTO SEWER.
Neutralizing Agent:SODA ASH,SODIUM BICARBONATE,LIME.

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

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED AREA WITH ACID-PROOF FLOORS AND CONTAINMENT CAPACITY.DO NOT STORE OUTDOORS.KEEP AWAY FROM INCOMAPTIBLE MATERIALS.

Other Precautions:MAINTAIN A WATER SUPPLY AND SPILL CONTROL IN THE STORAGE FACILITY.AVOID DAMAGE TO THE CONTAINERS.KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.

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

Respiratory Protection:NOT REQUIRED FOR NORMAL SERVICE.WHERE SULFURIC ACID MISTS ARE PRESENT,AN APPROPRIATE NIOSH/MSHA RESPIRATOR MUST BE USED.

Ventilation:AREA MUST BE WELL VENTILATED.IF MECHANICAL VENTILATION IS USED,THE COMPONENTS MUST BE ACID RESISTANT.

Protective Gloves:RUBBER/PLASTIC ACID-RESISTANT W/GAUNTLET

Eye Protection:CHEMICAL GOGGLE/FACE SHIELD

Other Protective Equipment:ACID RESISTANT APRON.FOR SEVERE CONDITIONS:ACID PROOF CLOTHING AND BOOTS.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD AWAY FROM WORK AREA.

Supplemental Safety and Health
AN UNLIMITED WATER SUPPLY SHOULD BE PRESENT TO HANDLE SULFURIC ACID EMERGENCIES.SULFURIC ACID(CONCENTRATED) IS REACTIVE WITH WATER.

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

HCC:C1

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

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.23-1.35

Viscosity:NOT RELEVANT

Evaporation Rate & Reference: