

EXIDE CORPORATION -- LEAD-ACID BATTERY,PART C -- 3695-01-268-9156

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

Product ID:LEAD-ACID BATTERY,PART C

MSDS Date:02/01/1993

FSC:3695

NIIN:01-268-9156

Kit Part:Y

MSDS Number: BQYMW

=== Responsible Party ===

Company Name:EXIDE CORPORATION

Address:645 PENN ST

City:READING

State:PA

ZIP:19601

Country:US

Info Phone Num:215-378-0500/215-378-0616(FAX)

Emergency Phone Num:

215-378-0500/800-424-9300(CHEMTREC)

CAGE:60038

=== 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: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:SULFURIC ACID (SARA III)

CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 30-40%  
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:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 53%  
Other REC Limits:NONE RECOMMENDED  
OSHA 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: 0.2%  
Other REC Limits:NONE RECOMME  
NDED  
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: 0.003%  
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 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: 0.06%  
Other RE

C Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9293

Ingred Name:POLYPROPYLENE

CAS:9003-07-4

RTECS #:UD1842000

Fraction by Wt: 5-6%

Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICA, CRYSTALLINE - FUSED (GEL CELL BATTERIES ONLY)

CAS:60676-86-0

RTECS #:VV7328000

Fraction by Wt: 3-5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE TABLE Z3

ACGIH TLV:0.1 MG/M3 RDUST;9293

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

LD50 LC50 Mixture:LD50 ORAL RAT IS 2140

MG/KG (SULF. ACID)

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: SEVERE BURNS AND ULCERATION OF SKIN, EYES, MOUTH, THROAT, ESOPHAGUS AND STOMACH. INFLAMMATION OF BRONCHIAL MEMBRANES. LEAD MAY CAUSE GASTROINTESTINAL DISORDERS AND CNS EFFECTS. CHRONIC: EROSION OF TEETH, INFLAMMATION OF NOSE, THROATAND BRONCHIAL TUBES. LEAD MAY CAUSE ANEMIA, DAMAGE TO KIDNEYS AND CNS.

Explanati

on of Carcinogenicity:LEAD IS LISTED UNDER IARC.

Effects of Overexposure:IF CONTACTED, SEVERE BURNS AND ULCERATION OF SKIN AND EYES. IF INHALED, SEVERE RESPIRATORY IRRITATION. IF INGESTED, SEVERE BURNS AND ULCERATION.

Medical Cond Aggravated by Exposure:SULFURIC ACID MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA AND DERMATITIS. LEAD CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

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

First Aid:E

YES/SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR IMMEDIATELY. REMOVE CONTAMINATED CLOTHING AND SHOES. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR WATER, FOLLOWED BY 2 OUNCES OF MILK OF MAGNESIA (NO CARBONATES). SEE DOCTOR IMMEDIATELY.

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

Flash Point:NONE  
Lower Limits:4.0(HYDROGN)  
Upper Limits:75(HYDROGEN)  
Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
Fire Fighting Procedures:EVACUATE AREA. REMOVE ALL IGNITION SOURCES. WEAR SULFURIC ACID RESISTANT CLOTHING AND A FULL FACED SCBA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRODUCED AND MAY EXPLODE IF IGNITED. REMOVE ALL IGNITION SOURCES. VENTILATE AREA. WATER GENERATES HEAT AND CAUSES ACID TO SPLATTER.

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

Spill Release Procedure  
s:WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DILUTE CAUTIOUSLY WITH WATER. COVER WITH SODA ASH OR QUICKLIME. SCOOP UP AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. FLUSH AREA WITH LARGE AMOUNTS OF WATER.  
Neutralizing Agent:SODA ASH (SODIUM CARBONATE), BAKING SODA OR QUICKLIME (CALCIUM OXIDE).

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE AWAY FROM FLAMES, IGNITION SOURCES, COMBUSTIBLE AND ORGANIC MATERIALS. AVOID PROLONGED OVERCHARGING. WEAR PROTECTIVE EQUIPMENT.  
Other Precautions:DO NOT CARRY BATTERY BY TERMINALS. DO NOT DROP BATTERY, PUNCTURE OR ATTEMPT TO OPEN BATTERY CASE. KEEP TERMINALS COVERED IN PLASTIC CASE. AVOID SHORTING BATTERIES. PLACE BROKEN BATTERIES IN PLASTIC CONTAINERS AND DELIVER TO BATTERY RECYCLER

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

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED CARTRIDGE RESPIRATOR IF

OR ACIDS OR FULL FACE MASK AS APPROPRIATE FOR  
EXPOSURE OF CONCERN WHEN TLV IS EXCEEDED.

Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CONFINED  
AREAS.

Protective Gloves:RUBBER GLOVES IF CONTACT IS EXPECTED.

Eye Protection:GOGGLES IF CONTACT IS EXPECTED.

Other Protective Equipment:RUBBER APRON AND BOOTS IF CONTACT IS  
EXPECTED. EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

KEY1:C1. CLEAN TERMINA

LS WITH MILD BAKING SODA SOLUTION AND WASH WITH  
WATER. WHEN BRUSHING BATTERY POSTS, USE MASK APPROVED FOR LEAD  
DUST, SAFETY GLASSES AND GLOVES.

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

HCC:C1

Boiling Pt.=95.C, 203.F

B.P. Text:203-240F

Vapor Pres:17-11

Vapor Density:>1

Spec Gravity:1.23-1.35

pH: