

EXIDE CORP.-GENERAL BATTERY CORP -- LEAD-ACID BATTERY -- 6140-01-441-3512

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

Product ID:LEAD-ACID BATTERY

MSDS Date:02/01/1996

FSC:6140

NIIN:01-441-3512

MSDS Number: CGMNQ

=== Responsible Party ===

Company Name:EXIDE CORP.-GENERAL BATTERY CORP

Address:645 PENN STREET

City:READING

State:PA

ZIP:19601

Country:US

Info Phone Num:215-378-0527

Emergency Phone Num:215-378-0

527/800-424-9300(CHEMTREC)

CAGE:08163

=== Contractor Identification ===

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: 53%

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: 0.2%  
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: 0.003%  
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  
Fract  
ion by Wt: 0.02%  
Other REC Limits:NONE SPECIFIED

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0.06%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:ELECTROLYTE (SULFURIC ACID/WATER/SOLUTION)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 30-40%  
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:POLYPROPYLENE  
CAS:9003-07-0  
RTECS #:TR5000000  
Fraction by Wt: 5-6%  
O

ther REC Limits:NONE RECOMMENDED

Ingred Name:SILICA, CRYSTALLINE - FUSED

CAS:60676-86-0

RTECS #:VV7328000

Fraction by Wt: 3-5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE TABLE Z-3

ACGIH TLV:0.1 MG/M3 RDUST;9596

===== 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:INHALATION:VAPORS OR MIST MAY CAUSE SEVERE RESPIRATORY IRRITATION.

INHALATION OF DUST OR LEAD DUST OR

FUMES MAY CAUSE IRRATION OF UPPER RESPIRATORY TRACT AND LUNGS.

INGESTION; MAY CAUSE SEVERE IRRITAT ION OF MOUTH, THROAT, ESOPHAGUS AND STOMACH AND MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA AND CRAMPS.

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS

CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:SEVERE SKIN IRRITATION, DAMAGE TO CORNEA, UPPER RESPIRATORY IRRITATION, HEADACHE,

FATIGUE, ABDOMINAL PAIN, LOSS OF

APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES AND

IRRITABILITY. EROSION O F TOOTH ENAMEL, INFLAMMATION OF NOSE,

THROAT AND BRONCHIAL TUBES, ANEMIA, NEUROPHATY, PARTICULARLY OF THE MOTOR NERVES.

Medical Cond Aggravated by Exposure:LUNG DAMAGE AND AGGRAVATED

PULMONARY CONDITIONS, SKIN DISEASE AND SOME FORMS OF KIDNEY, LIVER

AND NEUROLOGIC DISEASE MAY BE AGGRAVATED BY EXPOSURE.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND LIPS.

IF BREATHING IS DIFFICULT GIVE OXYGEN. CONSULT A PHYSCIAN.

INGESTION: GIVE LARGE QUANTITIES OF WATER, DO NOT INDUCE VOMITING.

CALL A PHYSC IAN. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, REMOVE ALL CONTAMINATED CLOTHING. EYES: FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES. CONSULT A DOCTOR.

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

Flash P

oint:NOT APPLICABLEN/

Lower Limits:4.1 %

Upper Limits:74.2 %

Extinguishing Media:CO2, FOAM, DRY CHEMICAL, HALOGEN

Fire Fighting Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWER.

USE POSITIVE PRESSURE, SCBA, WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND MAY SPLATTER.

Unusual Fire/Explosion Hazard:HIGHLY FLAMMABLE HYDGROGEN GAS IS

GENERATED DURING CHARGING AND OPERATING OF BATTERIES. KEEP HEAT AND SPARKS AWAY.

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

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Spill Release Procedures:STOP FLOW OF MATERIAL, CONTAIN/ABSORB SPILLS

WITH DRY SAND, EARTH, OR VERMIVULITE. DO NOT USE COMBUSTIBLE

MATERIALS. DO NOT DISCHARGE UNNEUTRALIZED ACID TO SEWER.

Neutralizing Agent:LIME, SODA ASH OR SODIUM BICARBONATE.

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

Handling and Storage Precautions:STORE IN COOL WELL VENTILATED AREA

WITH IMPERVIOUS SURFACES AND ADEQUATE CONTAINMENT IN THE EVENT OF

SPILLS, ADEQUATE WATER SUPPLY

FOR SPILL CONTROL.

Other Precautions:SPENT BATTERIES: SEND TO SECONDARY LEAD SMELTER FOR

RECYCLING.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN

CONCENTRATION OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL USE

NIOSH OR MSHA APPROVED RESPIRATORY PROTECTION.

Ventilation:STORE AND HANDLE IN WELL VENTILATED AREA. IF MECHANICAL

VENTILATION IS USED, COMPONENTS MUST BE ACID-RESISTANT.

Protective G

loves:ACID RESISTANT W/ELBOW LENGTH GAUNTLET

Eye Protection:CHEMICAL GOGGLES OR FACE SHIELD

Other Protective Equipment:ACID RESISTANT APRON. ACID RESISANT CLOTHING

IF CONDITION WARRANT.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT

AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

IN AREAS WHERE SULFURIC ACID IS HANDLED IN CONCENTRATIONS GREATER THAN

1% EMERGENCY EYE WASHES AND SHOWERS SHOULD BE PROVIDED WITH

UNLIMITED WATER SUPPLY.

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

HCC:N1

Boiling Pt:B.P. Text:203-240F

Vapor Pres:10 MMHG

Vapor Density:>1

Spec Gravity:1.230-1.350

Evaporation Rate & Reference: