

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

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Product Identification  
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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-

0527/800-424-9300(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

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Composition/Information on Ingredients  
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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  
Frac  
tion 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%

Other 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

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===== 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 IRRITATION OF UPPER RESPIRATORY TRACT AND LUNGS.

INGESTION; MAY CAUSE SEVERE IRRITATION 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 OF TOOTH ENAMEL, INFLAMMATION OF NOSE,

THROAT AND BRONCHIAL TUBES, ANEMIA, NEUROPATHY, 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.

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

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

IF BREATHING IS DIFFICULT GIVE OXYGEN. CONSULT A PHYSICIAN.

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

CALL A PHYSICIAN. 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.

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

Flash

Point:NOT APPLICABLE/

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 HYDROGEN 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

Gloves: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: