

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:215-37

8-0527/800-424-9300(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

===== 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
Fr
action 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 IRRITATI
ON. 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, HEADACH
E, 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.

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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 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.

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

Flas

h Point:NOT APPLICABLE/N/

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

Equipment:Gloves:ACID RESISTANT W/ELBOW LENGTH GAUNTLET

Eye Protection:CHEMICAL GOGGLES OR FACE SHIELD

Other Protective Equipment:ACID RESISTANT APRON. ACID RESISTANT 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: