

EXIDE CORP -- LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY) -- 6140-01-418-7795

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

Product ID:LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY)

MSDS Date:02/01/1996

FSC:6140

NIIN:01-418-7795

Status Code:A

MSDS Number: CJSMG

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN STREET

Box:14205

City:READING (FORMALLY IN HORSHAM)

State:PA

ZIP:19612-4205

Coun

try:US

Info Phone Num:610-378-0500

Emergency Phone Num:(800)424-9300

Chemtre Ind/Phone:(800)424-9300

CAGE:20038

=== Contractor Identification ===

Company Name:CELL ENERGY INC

Address:3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706

Country:US

Phone:916-484-7974

Contract Num:SP0450-99-M-F845

CAGE:1U269

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:EXIDE CORP.-GENERA



M3

Ingred Name:PROPYLENE CASE MATERIAL

CAS:115-07-1

RTECS #:UC6740000

Minumum % Wt:5.

Maxumum % Wt:6.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:ELECTROLYTE(WATER & SULFURIC ACID

SOLUTION): HARMFUL BY ALL ROUTES OF ENTRY. LEAD COMPOUNDS:

HAZARDOUS EXPOSURE CAN OCCUR ONLY WHEN PRODUCT IS HEATED ABOVE THE  
MELTING POINT, OX

IDIZED OR OTHERWISE PR OCESSED OR DAMAGED TO

CREATE DUST, VAPOR OR FUMES. INHALATION: ELECTROLYTE(WATER &

SULFURIC ACID SOLUTION): BREATHING OF SULFURIC ACID VAPORS OR MISTS

MAY CAUSE SEVERE RESPIRATORY IRRITATION. LEAD COM MPOUNDS:

INHALATION OF LEAD DUST OR FUMES MAY CAUSE IRRITATION OF UPPER

RESPIRATORY TRACT & LUNGS. SKIN/EYE CONTACT (WATER & ELECTROLYTE) :

SEVER IRRITATION, BURNS, ULCERATION, BLINDNESS, CORNEA DAMAG E.

Explanation of Carcinogenicity:ARSENIC: LISTED B

Y NTP, IARC, OSHA AS A

CARCINOGEN ONLY AFTER PROLONGED EXPOSURE AT HIGH LEVELS. LEAD

COMPOUNDS: LISTED AS AS AN IARC 2B CARCINOGEN, LIKELY IN ANIMALS IN

EXTREME DOSES. LACK OF PROOF O F HUMAN CARCINOGENICITY. SULFURIC

ACID: IARC LISTS "STRONG INORGANIC MIST CONTAINING SULFURIC ACID"

AS A CARCINOGEN 1; DOES NOT APPLY TO ELECTROLYTE.

Effects of Overexposure:ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION):

POSSIBLE EROSION OF TOOTH ENAMEL; INFLAMMATION OF NOSE, THROAT AND

BRONCHIAL TUBES. LEAD COMPOUNDS: ANEMIA; NEUROPATHY, PARTICULARLY

OF THE MOTOR NERVES , WITH WRIST DROP; KIDNEY DAMAGE: REPRODUCTIVE

CHANGES IN BOTH MALES AND FEMALES.

Medical Cond Aggravated by Exposure:SULFURIC ACID MISTS: PULMONARY

CONDITIONS, SKIN DISEASES (EG ECZEMA, CONTACT DERMATITIS). LEAD:

SOME FORMS OF KIDNEY, LIVER & NEUROLOGIC DISEASES.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BRE

## ATHING

DIFFICULT. IF EXPOSED TO LEAD DUST/FUME; GARGLE, WASH NOSE & LIPS; CONSULT A PHYSICIAN. INGESTION: GIVE LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN. LEAD EXPOSURE-CONSULT PHYSICIAN. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING COMPLETELY, INCLUDING SHOES. LEAD EXPOSURE-WASH IMMEDIATELY WITH SOAP & WATER. EYES: FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONSULT PHYSICIAN

IMMEDIATELY.

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

Lower Limits:4.1

Upper Limits:74.2

Extinguishing Media:CARBON DIOXIDE (CO2), FOAM, DRY CHEMICAL.

Fire Fighting Procedures:USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS. BEWARE OF ACID SPLATTER DURING WATER APPLICATION AND WEAR ACID-RESISTANT CLOTHING, GLOVES, FACE AND EYE PROTECTION.

Unusual Fire/Explosion Hazard:IN OPERATION, BATTERIES GENERATE AND RELEASE FLAMMABLE HYDROGEN GAS. THEY

MUST ALWAYS BE SUBJECT TO

CONTAIN THIS GAS WHICH, IF IGNITED BY BURNING CIGARETTE, NAKED FLAME OR SPARK, MAY CAUSE BATTERY EXPLOSION WITH DISPERSION OF CASING FRAGMENT AND CORROSIVE LIQUID ELECTROLYTE.

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

Spill Release Procedures:STOP FLOW OF MATERIAL. CONTAIN/ABSORB ON DRY SAND, EARTH OR VERMICULITE. IF POSSIBLE NEUTRALIZE WITH SODA ASH OR SODIUM BICARBONATE, LIME, ETC. WEAR ACID-RESISTANT CLOTHING, BO

OTS, GLOVES & FACE SHIELD. DO NOT ALLOW DISCHARGE OF UN-NEUTRALIZED ACID TO SEWER. NEUTRALIZED ACID MUST BE MANAGED IN ACCORDANCE WITH APPROVED LOCAL, STATE & FEDERAL REQUIREMENTS. CONSULT STATE ENVIRONMENTAL AGENCY.

Neutralizing Agent:SODA ASH, SODIUM BICARBONATE, LIME, ETC.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL-VENTILATED AREA. KEEP AWAY FROM INCOMPATIBLE MATERIALS & SOURCES OF IGNITION.

STORE ON SMOOTH, IMPERVIOUS SURFACES WITH BUILT-IN CONTAINMENT FEATURES. KEEP AWAY FROM METALLIC, SPARK-PRODUCING OBJECTS. HANDLE CAREFULLY & AVOID TIPPING.

Other Precautions:SINGLE BATTERIES POSE NO RISK OF ELECTRICAL SHOCK BUT THERE MAY BE INCREASING RISK OF ELECTRICAL SHOCK FROM STRINGS OF COMMERCIAL BATTERIES EXCEEDING 3, 12-VOLT UNITS. THERE IS A POSSIBLE RISK OF ELECTRIC SHOCK FROM CHARGING EQUIPMENT & FROM STRINGS OF SERIES CONNECTED BATERIES, WHETHER BEING CHARGE D OR NOT.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CONCENTRATIONS 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:RUBBER OR PLASTIC ACID-RESISTANT WITH ELBOW-LENGTH GAUNTLET.

Eye Protecti

on:CHEMICAL GOGGLES OR FACE SHIELD.

Other Protective Equipment:ACID-RESISTANT APRON. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID-RESISTANT CLOTHING, GLOVES AND BOOTS.

Work Hygienic Practices:AVOID BODILY CONTACT WITH INTERNAL COMPONETS. WEAR PROTECTIVE CLOTHING, EYE AND FACE PROTECTION, WHEN FILLING OR HANDLING BATTERIES.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:C1

Boilin

g Pt:>95.C, 203.F

B.P. Text:203-240F

Vapor Pres:17 TO 11 (FOR S.F. RANGE)

Vapor Density:>1

Spec Gravity:1.230 TO 1.350

Evaporation Rate & Reference: