

EXIDE CORP -- DRY CHARGE BATTERY -- 6240-01-184-3415

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

Product ID: DRY CHARGE BATTERY

MSDS Date: 09/01/1993

FSC: 6240

NIIN: 01-184-3415

MSDS Number: CBSHS

=== Responsible Party ===

Company Name: EXIDE CORP

Address: 645 PENN STREET

City: READING

State: PA

ZIP: 19601

Country: US

Info Phone Num: 610-378-0550/ FAX -0616

Emergency Phone Num: 610-378-0500/800-424-9300(CHEMTREC)

C

AGE: 20038

=== Contractor Identification ===

Company Name: ENERSYS INC

Address: 8306 PATUXENT RANGE RS SUITE 103

Box: City: JESSUP

State: MD

ZIP: 20794-8609

Country: US

Phone: 301-381-8500 OR 215-378-0757

CAGE: 90660

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

===== Composition/Information on Ingredients =====

Ingred Name: LEAD (SARA 313) (CERCLA)/INORGANIC LEAD COMPOUND

CAS: 7439-92-1

RTECS #

:OF7525000
Fraction by Wt: 53%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.05MG/M3, A3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA 313) (CERCLA)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG (SB)/M3; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313) (CERCLA)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.003%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1018
ACGIH TLV:0.01 MG/M3, A1; 9596
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 REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9596

Ingred Name:CASE MATERIAL (INCLUDING INGREDIENTS 7 AND 8)
Fraction by Wt: 5 - 6%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYPROPYLENE
CAS:

9003-07-0

RTECS #:TR5000000

Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT RELEVANT

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

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

Health Hazards Acute and Chronic:TARGET ORGANS:NONE. ACUTE- PRODUCT IS

A DRY CHARGED BATTERY. NO HAZARD IS ANTICIPATED. HAZARDOUS EXPOSURE CAN OCCUR WHEN PRODUCT

IS IN FIRE/BROKEN: LEAD COMPOUNDS MAY CAUSE

EYE & RESPIRATORY IRRITATION. TOXIC IF INGESTED. CHRONIC- LEAD COMPOUNDS MAY CAUSE ANEMIA, KIDNEY DAMAGE, NERVE DAMAGE (WRIST DROP).

Explanation of Carcinogenicity:CONTAINS LEAD. ARSENIC IS LESS THAN 0.10 %.

Effects of Overexposure:NONE. IF IN FIRE OR BROKEN, DUST OR FUMES MAY CAUSE: IRRITATION, ANEMIA, ABDOMINAL PAIN, NAUSEA, VOMITING, CONSTIPATION, HEADACHE, FATIGUE, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP D

ISTURBANCES

Medical Cond Aggravated by Exposure:LEAD AND ITS COMPONENTS CAN

AGGRAVATE SOME FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

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

First Aid:INHALATION - LEAD: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND LIPS; CONSULT PHYSICIAN. INGESTION - LEAD: CONSULT PHYSICIAN IMMEDIATELY. SKIN - LEAD: WASH IMMEDIATELY WITH SOAP AND WATER. EYES - LEAD: FLUSH IMMEDIATELY WITH LARGE AMOUNT OF WATER FOR AT LEAST

15 MINUTES; CONSULT PHYSICIAN.

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

Flash Point:NOT RELEVANT

Lower Limits:4.1%HYDROGEN

Upper Limits:74.2% (H2)

Extinguishing Media:BATTERY CASE WILL BURN. USE CARBON DIOXIDE, FOAM/DRY CHEMICAL EXTINGUISHER. WATER MAY CAUSE SPATTERING OF MOLTEN LEAD.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

Unu

sual Fire/Explosion Hazard:MOLTEN METALS PRODUCE FUMES, VAPORS AND/OR DUST THAT MAY BE TOXIC AND/OR RESPIRATORY IRRITANTS.

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

Spill Release Procedures:IF BROKEN, LEAD DUST OR PARTICULATE SHOULD BE VACUUMED (USING HEPA FILTER) OR WET-SWEPT. DO NOT DRY SWEEP OR USE FORCED AIR. PLACE IN DRY, CLOSED CONTAINER FOR DISPOSAL OR RECYCLING.

Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====
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Handling and Storage Precautions:STORE BATTERIES IN COOL, DRY, WELL-VENTILATED AREAS, UNDER THE ROOF. SEPARATE FROM INCOMPATIBLE MATERIALS. KEEP AWAY FROM HEAT, SPARKS AND FIRE.

Other Precautions:WASH HANDS BEFORE EATING OR DRINKING. KEEP OUT OF REACH OF CHILDREN. AVOID THE USE OF UNINSULATED TOOLS. DO NOT MAKE A CONNECTION BETWEEN THE TWO BATTERY TERMINALS AS SEVERE SPARKING MAY OCCUR WHICH COULD RESULT IN AN EXPLOSION.

===== Exposure Controls/P
ersonal Protection =====

Respiratory Protection:NONE REQUIRED. FOR DUST, FUME OR MIST, WEAR NIOSH-APPROVED RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:ADEQUATE

Protective Gloves:RUBBER GLOVES WHEN FILLING BATTERIES

Eye Protection:CHEMICAL GOGGLES WHEN FILLING BATTERIES

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER, COVERALL

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

DRY BATTERIES (CONTAINING NO ELECTROLYTE) ARE NOT HAZARDOUS.

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

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:M.P/F.P Text:486F - 620F

Decomp Temp:Decomp Text:NOT KNOWN

Spec Gravity:9.5 - 11.3

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:PRODUCT IS A DRY CHARGED BATTERY.

===== Stability and Reactivity Data =====

Stabi

lity Indicator/Materials to Avoid: YES

LEAD COMPOUNDS: STRONG ACIDS, STRONG ALKALIS, HALIDES, HALOGENATES,
POTASSIUM NITRATE, REDUCING AGENTS

Stability Condition to Avoid: PROLONGED OVERCHARGE, SOURCES OF IGNITION

Hazardous Decomposition Products: TOXIC METAL FUMES, VAPOR OR DUST,
TOXIC ARSINE GAS

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS. MATERIAL SHOULD BE RECYCLED
AT A SECONDARY
LEAD SMELTER.

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