

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)

CAGE

: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 #: OF

7525000
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:900

3-07-0
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 IRRITATIO N. 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 DIST
URB ANCES
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 OFWATER 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.
Unusua

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 =====
=====

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/Personal 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
Data

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 =====

Stability

y 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.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.