

EXIDE CORP / GOVERNMENT MARKETING DEPT -- DRY CHARGED BATTERY (NO ELECTROLYTE ADDED) -- 6140-00-410-2632

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

Product ID: DRY CHARGED BATTERY (NO ELECTROLYTE ADDED)

MSDS Date: 04/01/1996

FSC: 6140

NIIN: 00-410-2632

MSDS Number: CFLCR

=== Responsible Party ===

Company Name: EXIDE CORP / GOVERNMENT MARKETING DEPT

Address: 9055 GUILFORD RD

City: COLUMBIA

State: MD

ZIP: 21046-1

879

Country: US

Info Phone Num: 301-381-8500

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

Preparer's Name: ENVIRONMENTAL RESOURCES

CAGE: LO331

=== Contractor Identification ===

Company Name: ADVANCED INDUSTRIES INC

Address: 415 NORTHCUTT STREET

Box: 5666

City: LONGVIEW

State: TX

ZIP: 75608

Country: US

Phone: 214-236-4101

CAGE: 0GA21

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 / GOVERNMENT MARKETING DEPT
Address:9055 GUILFORD RD
Box:City:COLUMBIA
State:MD
ZIP:21046-1879
Country:US
Phone:301-381-8500
CAGE:LO331

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

Ingred Name:LEAD (SARA 313) (CERCLA)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 92-93%
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 #:CC4
025000
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:POLYPROPYLENE (CASE)
CAS:9003-07-0
RTECS #:TR5000000
Fraction by Wt: 6-8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER
Fraction by Wt: 6-8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:LEAD OXIDE (LITHARGE)
CAS:1317-36-8
RTECS #:OG1750000
Other REC Limits:NONE RECOMMENDED

Ingred Name:LEAD SULFATE (SARA 313) (CERCLA)
CAS:7446-14-2
RTEC
S #:OG4375000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG(PB)/M3; 9596
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

==== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
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. HAZAR

DOUS 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 DISTURB ANCES.

Medical Cond Aggravated by Exposure:LEAD AND ITS COMPONENTS CAN AGGRAVATE SOME FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

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First Aid Measures
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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 WI TH LARGE AMOUNT OFWATER FOR AT LEAST 15 MINUTES; CONSULT PHYSICIAN.

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Fire Fighting Measures
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Flash Point:NOT RELEVANT

Lower Limits:4.1% (H2)

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.

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

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Accidental Release Measures
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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

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===== **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

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

HCC:N1

Boiling Pt:B.P. Text:>2516F,>138

Melt/Freeze Pt:M.P/F.P Text:486F,252C

Decomp Temp:Decomp Text:NOT KNOWN

Spec Gravity:9.6-11.3

Solubility in Water:NEGLIGIBLE

Appearance and Odor:LEAD ACID, DRY W/O ELECTROLYTE BATTERY. 25 PLATES PER CELL; 750 AMPS.

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

Stability 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, WATER DAMAGE.

Hazardous Decomposition Products:LEAD: 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 S

MELTER.

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