

EXIDE CORP -- DRY BATTERY (NO ELECTROLYTE ADDED) -- 6140-00-059-3528

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===== Product Identification =====  
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Product ID: DRY BATTERY (NO ELECTROLYTE ADDED)

MSDS Date: 04/01/1998

FSC: 6140

NIIN: 00-059-3528

Status Code: A

MSDS Number: CJKYR

=== Responsible Party ===

Company Name: EXIDE CORP

Address: 645 PENN STREET

Box: 14205

City: READING (FORMALLY IN HORSHAM)

State: PA

ZIP: 19612-4205

Country: US

Info Phone Nu

m: 610-378-0500

Emergency Phone Num: 610-378-0500

Preparer's Name: REGULATORY AFFAIRS

Chemtrec Ind/Phone: (800)424-9300

CAGE: 20038

=== Contractor Identification ===

Company Name: EXIDE CORP

Address: 645 PENN STREET

Box: 14205

City: READING

State: PA

ZIP: 19612-4205

Country: US

Phone: 610-378-0500/0798

Contract Num: SP0430-98-D-0055-0032

CAGE: 20038

Company Name: EXIDE CORP (319-378-0789)

Address: GRANT ST RR 1

Box: UNKNOW

City: MANCHESTER

State: PA

ZIP: 52057

Country: US

Phone: 319-927-4501/FAX 319-927-5701

CAGE: 0RM

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Composition/Information on Ingredients  
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Ingred Name:LEAD  
CAS:7439-92-1  
RTECS #:OF7525000  
Minumum % Wt:92.  
Maxumum % Wt:93.  
ACGIH TLV:0.15 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY  
CAS:7440-36-0  
RTECS #:CC4025000  
= Wt:.2  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC  
CAS:7440-38-2  
RTECS #:CG0525000  
= Wt:0.  
ACGIH TLV:0.01 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:CALCIUM  
CAS:7440  
-70-2  
RTECS #:EV8040000  
= Wt:.02

Ingred Name:CASE MATERIAL: POLYPROPYLENE & HARD RUBBER  
Minumum % Wt:6.  
Maxumum % Wt:8.

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Hazards Identification  
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Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE: (LEAD COMPOUNDS)SYMPTOMS OF  
TOXICITY INCLUDE HEADACHE, FATUGUE, ABDOMINAL PAIN, LOSS OF  
APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES &  
IRRITABILITY. CHRONIC: (LEAD COMPOUNDS) ANEMI A, N

EUROPATHY,

PARTICULARLY OF THE MOTOR NERVES, WITH WRIST DROP; KIDNEY DAMAGE;  
REPRODUCTIVE CHANGES IN BOTH MALES AND FEMALES.

Explanation of Carcinogenicity:LEAD COMPOUNDS: LISTED AS A 2B  
CARCINOGEN, LIKELY IN ANIMALS AT EXTREME DOSES. PROOF OF  
CARCINOGENICITY IN HUMANS IS LACKING AT PRESENT. ARSENIC: IS A  
LISTED CARCINOGEN BY OSHA, NTP & IARC.

Effects of Overexposure:LEAD COMPOUNDS: INHALATION-INHALATION OF DUST  
OR FUMES MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT AND  
LUNGS.

INGESTION-ACUTE INGESTION MAY CAUSE ABDOMINAL PAIN, NAUSEA,  
VOMITING, DIARRHEA & SEVERE CRAMPING. THIS MAY LEAD RAPIDLY TO  
SYSTEMIC TOXICITY AND MUST BE TREATED BY A PHYSICIAN. SKIN-NOT  
ABSORBED THROUGH THE SKIN. EYE-MAY CAUSE EYE IRRITATION.

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

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

First Aid:LEAD: INHALATION-REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND  
LIPS; CONSULT PHYSICIAN. INGESTION-CONSULT PHYSICIAN IMMEDIATELY.  
SKIN-WASH IMMEDIATELY WITH SOAP AND WATER. EYES-FLUSH IMMEDIATELY  
WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN; CONSULT  
PHYSICIAN.

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

Extinguishing Media:ANY FIRE EXTINGUISHING MEDIA MAY BE USED. INORGANIC  
LEAD COMPOUND IS NOT A COMBUSTIBLE MATERIAL, NOR WILL IT EXPLODE  
UNDER CONDITIONS OF NORMAL  
USE.

Fire Fighting Procedures:WEAR FULL BODY PROTECTIVE CLOTHING AND  
SELF-CONTAINED BREATHING APPARATUS WITH POSITIVE PRESSURE AND FULL  
FACE PIECE.

Unusual Fire/Explosion Hazard:AVOID RISK OF FIRE OR EXPLOSION, KEEP  
SPARKS OR OTHER SOURCES OF IGNITION AWAY FROM BATTERIES & DO NOT  
ALLOW METALLIC MATERIALS TO SIMULTANEOUSLY CONTACT NEGATIVE AND/OR  
POSITIVE TERMINALS OF CELLS & BATTERIES. FOLLOW MANUFACTURERS  
INSTRUCTIONS: INSTALL/SERVICE.

===== Accidental R

Release Measures =====

Spill Release Procedures: LEAD DUST OR PARTICULATE SHOULD BE VACUUMED (USING HEPA FILTER) OR WET-SWEPT; USING CONTROLS WHICH MINIMIZE FUGITIVE EMISSIONS; DO NOT USE COMPRESSED AIR. PLACE IN DRY, CLOSED CONTAINERS FOR DISPOSAL OR RECYCLING.

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

Handling and Storage Precautions: STORE BATTERIES IN COOL, DRY, WELL-VENTILATED AREAS. BATTERIES SHOULD BE STORED UNDER ROOF FOR PROTECTION AGAINST ADVERSE WEATHER CONDITIONS. SEPARATE FROM INCOMPATIBLE MATERIALS. STORE/HANDLE ONLY IN AREAS WITH ADEQUATE WATER SUPPLY. AVOID DAMAGE TO CONTAINERS. KEEP AWAY FROM FIRE, SPARKS/ HEAT.

Other Precautions: PRECAUTIONARY LABELLING: POISON - CAUSES SEVERE BURNS. LEAD COMPOUNDS: HAZARDOUS EXPOSURE CAN OCCUR ONLY WHEN PRODUCT IS HEATED ABOVE MELTING POINT, OXIDIZED OR OTHERWISE PROCESSED OR DAMAGED TO CREATE DUST, VAPOR OR FUME.

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

Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS.

Ventilation: STORE & HANDLE IN DRY, VENTILATED AREA.

Protective Gloves: RUBBER OR PLASTIC ACID-RESISTANT W/ ELBOW-LENGTH GAUNTLET WHEN FILLING BATTERY

Eye Protection: CHEMICAL GOGGLES OR FACE SHIELD WHEN FILLING OR HANDLING BATTERIES.

Other Protective Equipment: WEAR COVERALLS OR FULL-BODY COVERING DURING USE. WHEN FILLING BATTERIES USE ACID-RESISTANT APRON. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID-RESISTANT CLOTHING AND

BOOTS.

Work Hygienic Practices: HANDLE BATTERIES CAUTIOUSLY TO AVOID SPILLS. MAKE CERTAIN VENT CAPS ARE ON SECURELY. AVOID CONTACT WITH INTERNAL COMPONENTS. WEAR PROTECTIVE CLOTHING WHEN FILLING OR HANDLING BATTERIES.

Supplemental Safety and Health

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

HCC: Z7

Boiling Pt: B.P. Text: (760MM HG) > 2516F

Melt/Freeze Pt: M.P/F.P Text: 486 TO 680F

Spec Gravity: 9.6 TO 11.3 (H2O)

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Evaporation Rate & Reference: