

EXIDE CORP -- DRY CHARGE BATTERY -- 6140-01-203-4912

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

Product ID: DRY CHARGE BATTERY

MSDS Date: 09/01/1993

FSC: 6140

NIIN: 01-203-4912

MSDS Number: BYSDQ

=== Responsible Party ===

Company Name: EXIDE CORP

Address: 645 PENN ST

City: READING

State: PA

ZIP: 19612-4205

Country: US

Info Phone Num: 215-378-0798/0500

Emergency Phone Num: 215-378-0798/0500

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

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: 0RML3

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

Ingred Name: LEAD (SARA III)

CAS: 7439-92-1

RTECS #: OF7525000

Fraction by Wt: 53% %

Other REC Limits: NONE

RECOMMENDED  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)  
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; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA III)  
CAS:7440-38-2  
RTECS #:CG0525000  
Fraction by Wt: 0.003% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.5 MG/M3 (AS)  
ACGIH TLV:0.01,A1 MG/M3; 9394  
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: 0.05% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9293

Ingred Name:POLYPROPYLENE RUBBER  
CAS:9003-07-0  
Fraction by Wt: 5-6% %  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:150 UG/M3

ACGIH TLV FOR LEAD

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:HAZARDOUS EXPOSURE TO LEAD COMPOUNDS CAN OCCUR ONLY WHEN PRODUCT IS HEATED, OXIDIZED OR OTHERWISE PROCESSED OR DAMAGED TO CREATE DUST, VAPOR OR FUME. INHALATION OF LEAD DUST MAY CAUSE RESPIRATORY TRAC T IRRITATION. INGESTION MAY CUASE GASTROINTESTINAL DISTURBANCES. MAY CAUSE EYE IRRITATION.

Explanation of Carcinogenici

ty:CONTAINS I A [7440-38-2]

WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:ACUTE: HEADACHE, FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES AND IRRITABILITY. CHRONIC: ANEMIA, NEUROPATHY--PARTICULARLY OF THE MOTOR NERVES WITH WRIST D ROP, KIDNEY DAMAGE, REPRODUCTIVE CHANGES IN BOTH MALES AND FEMALES.

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

=====  
First Aid Measures  
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First Aid: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 LARG E AMOUNTS OF WATER FOR 15 MINUTES. CONSULT PHYSICIAN.

=====  
Fire Fighting Measures  
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Flash Point:NONFLAMMABLE

Lower

Limits:4.1 % (H2)

Upper Limits:74.2% (H2)

Extinguishing Media:CARBON DIOXIDE, FOAM, DRY CHEMICAL

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

Unusual Fire/Explosion Hazard:HIGHLY FLAMMABLE HYDROGEN GAS (H2) IS GENERATED DURING CHARGING AND OPERATION. TO AVOID RISK, KEEP IGNITION SOURCES AWAY FROM BATTERIES.

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Accidental Release Measures  
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Spill R

Release Procedures: LEAD DUST SHOULD BE VACUUMED OR WET-SWEPT. USE CONTROLS WHICH MINIMIZE FUGITIVE EMISSIONS. DO NOT USE COMPRESSED AIR.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
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Handling and Storage Precautions: STORE BATTERIES IN COOL, DRY, WELL-VENTILATED AREAS WITH IMPERVIOUS SURFACES AND ADEQUATE CONTAINMENT IN THE EVENT OF SPILLS.

Other Precautions: BATTERIES SHOULD BE STORED UNDER ROOF FOR PROTECTION

AGAINST ADVERSE WEATHER CONDITIONS. SEPARATE FROM INCOMPATIBLE MATERIALS. STORE AND HANDLE ONLY IN AREAS WITH ADEQUATE WATER SUPPLY AND SPILL CONTROL. AVOID DAMAGE TO CONTAINERS.

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Exposure Controls/Personal Protection  
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Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS.

Ventilation: STORE AND HANDLE IN WELL-VENTILATED AREA.

Protective Gloves: RUBBER OR PLASTIC ACID-RESISTANT

Eye Protection: CHEMICAL GOGGLES/FACE SHIELD

Other Protective Equip

ment: COVERALLS OR FULL-BODY COVERING DURING USE.

WHEN FILLING BATTERIES USE ACID RESISTANT APRON.

Work Hygienic Practices: HANDLE BATTERIES CAUTIOUSLY TO AVOID SPILLS.

MAKE CERTAIN VENT CAPS ARE ON SECURELY. AVOID CONTACT WITH INTERNAL PARTS.

Supplemental Safety and Health

DO NOT ALLOW METALLIC MATERIALS TO SIMULTANEOUSLY CONTACT NEGATIVE AND POSITIVE TERMINALS OF CELLS AND BATTERIES. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND SERVICE.

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Physical/Chemical Properties  
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HCC: N1

Melt/Freeze Pt: M.P/F.P Text: NOT GIVEN

Vapor Pres: NOT GIVEN

Vapor Density: NOT GIVEN

Spec Gravity: 9.6 TO 11.3

Evaporation Rate & Reference: NIL

Solubility in Water: NEGLIGIBLE

Appearance and Odor: BATTERY WITH BLUISH GRAY METAL INSIDE; NO APPARENT ODOR

Percent Volatiles by Volume: 0 %

=====  
Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid: YES

STRONG ACIDS, BASES, HALIDES, HALOGENATES, POTASS

IUM NITRATE,

PERMANGANATE, PEROXIDES, REDUCING AGENTS, NASCENT HYROGEN

Stability Condition to Avoid:PROLONGED OVERCHARGE, SOURCES OF IGNITION

Hazardous Decomposition Products:TOXIC METAL FUME/VAPOR/DUST; CONTACT WITH STRONG ACID IN PRESENCE OF NASCENT HYDROGEN MAY GENERATE ARSINE GAS.

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

Waste Disposal Methods:SEND SPENT BATTERIES TO SECONDARY LEAD SMELTER FOR RECYCLING. PLACE NEUTRALIZED SLURRY INTO SEALED CONTAINERS AND

DISPOSE OF AS HAZARDOUS WASTE AS APPLICABLE. WASTE SHOULD BE MANAGED IN ACCORDANCE WITH APPROVED LOCAL, STATE AND FEDERAL REQUIREMENTS.

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