

EXIDE CORP -- DRY CHARGE BATTERY -- 6140-00-836-1279

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

Product ID: DRY CHARGE BATTERY

MSDS Date: 11/01/1993

FSC: 6140

NIIN: 00-836-1279

MSDS Number: CCLTH

=== 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

Emergency Phone Num: 215-378-0798

CAGE: EXIDE

=== Contractor Identification ===

Company Name: EXIDE CORP

Address: 101 GIBRALTAR RD

Box: 14205

City: HORSHAM

State: PA

ZIP: 19044

Country: US

Phone: 215-441-7531

CAGE: EXIDE

Company Name: YUASA-EXIDE, INC.

Address: 645 PENN ST.

Box: City: READING

State: PA

ZIP: 19601

Country: US

Phone: 215-371-0400

CAGE: 0W0V7

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

Ingred Name: LEAD (SARA 313) (CERCLA)

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

Ingr
ed 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 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:YES 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 Carcinogenicity:CONTAINS INORGANIC ARSENIC [744

0-38-2]

AND LEAD WHICH ARE LISTED BY NTP AND IARC AND REGULATED BY OSHA AS CARCINOGENS.

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 SOME FORMS OF KIDN EY, LIVER AND NEUROLOGIC DISEASES.

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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.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Lower Limits:4.1 % (H
2)

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 Release Procedur

es: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.

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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 Equipment: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

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

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

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:9.6 TO 11.3

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NEGLIGIBLE

Appearance and Odor:BLUESH GRAY METAL; NO APPARENT ODOR

Percent Volatiles by Volume:0 %

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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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