

EXIDE CORP/YUASA EXIDE INC. -- DRY CHARGE BATTERY (NO ELECTROLYTE ADDED),F-4 EH/DLT
-- 6140-00-410-2632

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

Product ID:DRY CHARGE BATTERY (NO ELECTROLYTE ADDED),F-4 EH/DLT

MSDS Date:04/01/1996

FSC:6140

NIIN:00-410-2632

MSDS Number: CFKRB

=== Responsible Party ===

Company Name:EXIDE CORP/YUASA EXIDE INC.

Address:645 PENN STREET

City:READING

State:PA

ZIP:19612-4205

Co

untry:US

Info Phone Num:610-378-0550/208-1975

Emergency Phone Num:610-378-0500/800-424-9300(CHEMTREC)

CAGE:KO556

=== 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:BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-4442

Contract Num:SP0413-00-M-0837

CAGE:0FGN2

Company Name:ENERSYS INC

Address:8

306PATUXENT 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

Company Name:EXIDE CORP/YUASA EXIDE INC.

Address:645 PENN STREET

Box:14145

City:READING

State:PA

ZIP:19612-4205

Country:US

Phone:610-378-0550/208-1975

CAGE:KO556

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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 #: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: 6 - 8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYPROPYLENE
CAS:9003-07-0
RTECS #:TR5000000
Fraction by Wt: SEE # 6%
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER
Fraction by Wt: SEE # 6%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE WHILE DRY.
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

UNDER NORMAL USE.

ACUTE- INTERNAL COMPONENTS CONTAIN LEAD. IF HEATED/BURNED, LEAD FUME/DUST CAN CAUSE POISONING, RESPIRATORY & LUNGS IRRITATION. MAY CAUSE EYE IRRITATION. TOXIC IF I NGESTED. LEAD ACCUMULATES IN BONE & BODY ORGANS. CHRONIC- ANEMIA, NERVE & KIDNEY DAMAGE, REPRODUCTIVE CHANGES.

Explanation of Carcinogenicity:CONTAINS LEAD.

Effects of Overexposure:IF BATTERY IS BROKEN/HEATED OR IN

FIRE:IRRITATION, HEADACHE, NAUSEA, VOMITING, FATIGUE, WEIGHT LOSS, ANEMIA,

PAIN IN LEGS, ARMS AND JOINTS, COUGHING, SEVERE ABDOMINAL CRAMPING AND PAIN, LOSS OF APPETI TE, SLEEP DISTURBANCES AND IRRITABILITY

Medical Cond Aggravated by Exposure:IF BROKEN OR IN FIRE: PREGNANT

WOMEN AND CHILDREN MUST BE PROTECTED FROM LEAD EXPOSURE. LEAD AND ITS COMPOUNDS CAN AGGRAVATE PRE-EXISTING KIDNEY, LIVER AND NEUROLOGICAL DISEASES.

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

First Aid:NONE UNDER NORMAL USE. IF LEAD EXPOSURE IS SUSPECTE D OR

BATTERY IS IN FIRE: EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER.

INHALED:MOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED.

ORAL:CALLPHYSICIAN IMMEDIATELY.

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire F

ighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. HYDROGEN GAS, IF PRESENT, IS EXPLOSIVE/FLAMMABLE. MAY FORM TOXIC DUSTS OR FUMES.

===== Accidental Release Measures =====

Spill Release Procedures:IF BROKEN, LEAD DUST SHOULD BE VACUUMED (USING HEPA FILTE

R) OR WET-SWEPT. DO NOT DRY SWEEP OR USE FORCED AIR.

PLACE IN DRY, CLOSED CONTAINER FOR DISPOSAL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. HANDLE WITH CARE.

Other Precautions:WASH HANDS BEFORE EATING OR DRINKING. KEEP OUT OF REACH OF CHILDREN. AVOID THE USE OF UNINSULATED TOOLS. AFTER CHARGING, DO NOT MAKE A CONN

NECTION BETWEEN TWO BATTERY TERMINALS AS

SEVERE SPARKING MAY OCCUR WHICH COULD RESULT IN AN EXPLOSION.

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===== 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:LATEX/RUBBER WHEN FILLING BATTERIES

Eye Protection:CHEMICAL GOGGLES WHEN FILLING BATTERIES

Other Protective Equipment:EYE WASH STATION. WEAR ACID-RESISTANT APRON

WHEN FILLING BATTERIES.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

THIS IS A DRY BATTERY WITH NO ELECTROLYTE. FORMULA CHANGED.BATTERY P/N 4DLT-DRY IS SAME BATTERY AS P/N F-4 EH/DLT, DRY CHARGED BATTERY.

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

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Decomp Temp:Decomp Text:NOT KNOWN

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:PRODUCT IS A DRY CHARGED BATTERY.

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG BASES, HALIDES, HALOGENATES, PERMANGANATE, PEROXIDES, STRONG REDUCING AGENTS

Stability Condition to Avoid:PROLONGED OVERCHARGE, IGNITION SOURCES

Hazardous Decomposition Prod

ucts:MAY FORM TOXIC METAL FUME, ARSINE GAS

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

Waste Disposal Methods:SEND TO SECONDARY LEAD SMELTER FOR RECYCLING.
OBSERVE LOCAL, STATE AND FEDERAL REGULATIONS.

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