YUASA-EXIDE INC -- NP SERIES LEAD/ACID BATTERY -- 6135-01-272-4048

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

Product ID:NP SERIES LEAD/ACID BATTERY
MSDS Date:01/02/1991
FSC:6135
NIIN:01-272-4048
MSDS Number: BMTZY
=== Responsible Party ===
Company Name:YUASA-EXIDE INC
Address:2400 BERNVILLE RD
City:READING
State:PA
ZIP:19605-9607
Country:US
Info Phone Num:610-208-1991/610-208-1975
Emergency Phone Num:
610-208-1991/610-208-1975
CAGE:IO592
=== Contractor Identification ===
Company Name:ARJAY ELECTRONICS CORP
Address:525 W CHESTER PIKE SUITE 314
Box:City:HAVERTOWN
State:PA
ZIP:19083-4539
Country:US
Phone:215-449-3600
CAGE:64812
Company Name:BATTERY CENTER THE (404-448-9273)
Address:2245 BUTTON GWINNETT DR
Box:UNKNOW
City:ATLANTA
State:GA
ZIP:30340
Country:US
Phone:770-448-9273
CAGE:00HZ6
Company Name:BATTERY OUTLET INC
Address:1608 CAMPOSTELLA RD
Box:City:CHESAPEAKE
State:VA
ZIP:23324
Country:US

Phone:757-545-4442
CAGE:0FGN2
Company Name:YUASA-EXIDE INC
Address:2366 BERNVILLE ROAD
Box:14145
City:READING
State:PA
ZIP:19612-4145
Country:US
Phone:610-208-1975
CAGE:77280
Company Name:YUASA-EXIDE INC
Address:645 PENN ST
Box:14145
City:READING
State:PA
ZIP:19612
Country:US
Phone:610-208-1975
CAGE:IO592

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

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 32-40%
Other REC Limits:NONE SPECIF
IED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:LEAD (BATTERY INTERNALS OF LEAD) (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:ORAL RAT LD50 IS NOT KNOWN
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:

NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:PRODUCT CONTAINS LEAD AND SULFURIC ACID. SULFURIC ACID IS A CORROSIVE CAUSING BURNS TO BODY TISSUES. LEAD IS TOXIC AND SOME LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC. CONTACT WITH EITHER IS HIGHLY UNLIKELY TO OCCUR UNLESS THE CASE IS BROKEN OR SPILLED, THEN ONLY CONTACT WITH THE ACID IS LIKELY.
Explanation of Carcinogenicity:LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC IN ANIMALS AND POSSILBY IN HUMANS.
Effects o
f Overexposure:CONTACT WITH SULFURIC ACID IS THE MOST LIKELY EXPOSURE, PRODUCING IRRITATION OR BURNS TO THE BODY TISSUE CONTACTED.
Medical Cond Aggravated by Exposure:NONE

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

First Aid:FIRST AID IS GIVEN FOR SULFURIC ACID CONTACT. EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED:REMOVE TO FRESH A IR. INGESTED:DO NOT INDUC
E VOMITING.
GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Fire Fighting Procedures:WEAR ACID RESISTANT PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:WHEN BEING CHARGED THIS BATTERY GENERATES HYDROGEN GAS WHICH MAY FORM EXPLOSIVE MIXTURES WITH AIR. ELECTROLYTE REACTS WITH WATER OR WITH METALS TO RELEASE H*2.

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

Spill Release Procedures:IF ACID IS SPILLED, NEUTRALIZE. PLACE REMAINDER IN AN ACID RESISTANT CONTAINER FOR RECYCLE OF THE LEAD.
Neutralizing Agent:SODIUM BICARBONATE OR LIME

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

Handling and Storage Precautions:STORE IN COOL, DRY AREA. PROTECT FROM PHYSICAL DAMAGE. PROTECT TERMINALS FROM SHORT CIRCUITS.
Other Precautions:READ MANUFACTURERS LITERATURE AND FOLLOW INSTRUCTIONS.

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

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED RESPIRATOR FOR ACID DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29
CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.
Ventilation:NOT NORMALLY REQUIRED. USE LOCAL EXHAUST DURING CHARGING CYCLES TO AVOID AN EXPLOSIVE BUILD UP OF HYDROGEN GAS.
Protective Gloves:NONE (RUBBER IF ACID IS LEAKING)
Eye Protection:SAFETY GLASSES/SPLASH GOGGLES FOR LIQUID
Other Protective Equipment:NORMAL WORK CLOTHING. PROTECT WITH IMPERVIOUS APRON AND/OR BOOTS WHEN HANDLING ACID OR IF ACID IS LEAKING.
Work Hygienic Practices:USE GOOD INDUSTRIAL HYGIENE PRACTIC
E. AVOID ALL CONTACT WITH ACID OR INTERNALS OF THE BATTERY.
Supplemental Safety and Health
NON-SPILLABLE BATTERY, PER CTDF.

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

HCC:N1
Boiling Pt:B.P. Text:203F,95C
Vapor Pres:10 MM
Vapor Density:>1
Spec Gravity:1.27
Solubility in Water:100%
Appearance and Odor:COLORLESS,TRANSPARENT, ONO ODOR (NOTE DESCRIPTION OF ELECTROLYTE NOT BATTERY)

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

Stability Indi

cator/Materials to Avoid:YES
COMBUSTIBLES, ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS, CYANIDES.
Stability Condition to Avoid:RUPTURE OF BATTERY CASE.
Hazardous Decomposition Products:CHARGING, ESPECIALLY OVERCHARGING RELEASES HYDROGEN, A FLAMMABLE EXPLOSIVE GAS.

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

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. HMIS SUGGESTS THAT DISPOSAL MAY BE DONE BY FLUSHING NEUTRALIZED
ACID TO DRAIN AND SENDING REMAINDER TO LEAD RECLAIMER. DO NOT INCINERATE!!!