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YUASA BATTERY AMERICA INC -- NP24-12B STORAGE BATTERY -- 6140-01-296-6194

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

Product ID:NP24-12B STORAGE BATTERY
MSDS Date:05/20/1986
FSC:6140
NIIN:01-296-6194
MSDS Number: BHWYL
=== Responsible Party ===
Company Name:YUASA BATTERY AMERICA INC
Address:9728 ALBURTIS AVE
City:SANTA FE SPRINGS
State:CA
ZIP:90670
Country:US
Info Phone Num:213-949-4266
Emergency Phone
 Num:800-423-4667
Preparer's Name:L.H.BIGGINS
CAGE:77280
=== Contractor Identification ===
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

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

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:LEAD (SARA III)
CAS:7439-9

2-1
RTECS #:OF7525000
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 of 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

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========== 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 INDUCE 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.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, OR DRY CHEMICAL.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:SULFURIC ACID REACTS WITH METALS TO FORM HYDROGEN, AFLAMMABLE SOMETIMES EXPLOSIVE GAS.

========== Ac

cidental 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

========== 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
INSTRUCT
IONS.

========== 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 Protect
ion:SAFETY GLASSES/SPLASH GOGGLES (LIQUID)
Other Protective Equipment:NORMAL WORK CLOTHING. PROTECT WITH
IMPERVIOUS APRON AND/OR BOOTS IF ACID IS LEAKING.
Work Hygienic Practices:USE GOOD INDUSTRIAL HYGIENE PRACTICE. AVOID
ALL CONTACT WITH ACID OR INTERNALS OF THE BATTERY.
Supplemental Safety and Health
MFR STATES THAT BATTERY IS CLASSED AS AN ARTICLE PER OSHA HAZ COM STD
AND INFORMATION SUPPLIED FOR INFORMATION PURPOSES ONLY.

========== Physical/Chemical Properties =====
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HCC:N1
Boiling Pt:B.P. Text:203F,95C
Melt/Freeze Pt:M.P/F.P Text:-338F,-206C
Vapor Pres:10 MM
Vapor Density:>1
Spec Gravity:1.245-1.295
pH: