

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:7439-92

-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

===== 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.

===== 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.

===== Acc

idental 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  
INSTRUCTI  
ONS.

===== 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 Protecti  
on: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 =====  
=====

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: