

YUASA-EXIDE INC -- PN:NP12-12 LEAD-ACID BATTERY -- 6140-01-371-9540

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Product Identification  
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Product ID:PN:NP12-12 LEAD-ACID BATTERY

MSDS Date:06/01/1996

FSC:6140

NIIN:01-371-9540

MSDS Number: CFFKB

=== Responsible Party ===

Company Name:YUASA-EXIDE INC

Address:2400 BERNVILLE RD

Box:14145

City:READING

State:PA

ZIP:19605-9607

Country:US

Info Phone Num:610-208-1975

Emergency Phone Num:800

-424-9300(CHEMTREC)

CAGE:IO592

=== Contractor Identification ===

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: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:I

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Composition/Information on Ingredients  
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Ingred Name:INORGANIC LEAD COMPOUND CONTAINS INGREGDS 2-6.  
Fraction by Wt: NP  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:RULE IN PROCESS  
ACGIH TLV:0.15 MG PB/M3

Ingred Name:LEAD (SARA 313) (CERCLA)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 60%  
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: 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: 0.2%  
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: 0.2%  
Other REC Limits:NONE RECOMMENDED

In

gred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9596

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) (ELECTROLYTE)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 10-30%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/3 STEL; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:CASE MATERIAL INCLUDES INGREDIENTS 9-17  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

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

Ingred Name:POLYSTYRENE  
CAS:9003-53-6  
RTECS #:WL6475000  
Fraction by Wt: NP  
Other REC Limits:NONE RECOMMENDED

Ingred Name:STYRENE ACRYLONITRILE  
CAS:9003-54-7  
RTECS #:AT6978000  
Fraction by Wt: NP  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ACRYLONITRILE-BUTADIENE-STYRENE TERPOLYMER  
CAS:9003-56-9  
RTECS #:AT6970000  
Fraction by Wt: NP  
Other REC Limits:NONE RECOMMENDED

Ingred Name:BUTADIENE-STY

RENE POLYMER (RUBBER)

CAS:9003-55-8

RTECS #:WL6478000

Fraction by Wt: NP

Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYVINYL CHLORIDE

CAS:9002-86-2

RTECS #:KV0350000

Fraction by Wt: NP

Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYCARBONATE

Fraction by Wt: NP

Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER

Fraction by Wt: NP

Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYETHYLENE

RTECS #:PM9002884

Fraction by Wt: NP

Other REC Limits:NONE RECOMMENDED

Ingred Name:SHEET MO

LDING COMPOUND (GLASS-REINFORCED POLYESTER)

Fraction by Wt: 10%

Other REC Limits:NONE RECOMMENDED

Ingred Name:INORG PB/H2SO4 PRIMARY COMPO OF EVERY YUASA-EXIDE INC MFG  
BATT.OTHER INGREDIENTS MAY BE PRESENT DEPENDENT UPON BATTERY TYPE.

Fraction by Wt: NA

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES

IARC:YES OSHA:YES

Health Hazards Acute and Chronic:INHAL:BREATH ACID VAP/MIST CAUSE SEVER RESP IRRIT.PB DUST/FUME INHAL MAY CAUSE UPPER RESP TRACT/LUNGS IRRIT.INGEST:ACID MAY CAUSE SEVER MOUTH/THROAT/ESOPHA/STOMA IRRIT.ACUTE PB INGEST MAY CAUSE ABD PA IN,NAU,VOMIT,DIARR,SEVERE CRAMP.MAY LEADRAPIDLY TO SYST TOXICITY,MUST BE TREATED BY DR.SKIN:ACID SEVER IRRIT(SIGN/SYMP)

Explanation of Carcinogenicity:PER MSDS:IARC CAT I-STRONG INORG ACID MIST W/H2SO4(DOESNT APPLY TO L IQ FORM/SOLN IN

BATT);NTP/IARC/OSHA-ARSENIC PROL EXP

Effects of Overexposure:HEALTH:BURNS,ULCER.PB:NOT ABSORB THRU SKIN.EYE:H2SO SEVER IRRIT,BURNS,CORNEA DMG,BLIND.PB:CAUSE IRRIT.OVEREXPO:ACID SEVER SKIN IRRIT,CORNEA DMG,UPPER RESP IRRIT,TOOTH ENAMEL EROSION,INFLAMM NOSE/THROA T/BRONC.PB:TOXI SYMPT-HEAD,FTG,ABD PAIN,APPETITE LOS,MUSCU ACHES,WEAK,SLEEP DISTURB,IRRITABI,ANEMIA,NEUROPATHY,KID DMG

Medical Cond Aggravated by Exposure:H2SO4 MIST OVEREXPO MAY CAUSE LUNG DMG,

AGGRAVATE PULM CONDITIONS.H2SO4 CONTACT W/SKIN MAY AGGRAVATE SKIN DISEASES-ECZEMA,CONTACT DERM.LEAD/CMPDS CAN AGGRAVATE SOME FORMS OF KIDN/LIV/NEUROLOGIC DISEASE

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

First Aid:INHAL:ACID:REMOVE TO FRESH AIR IMMED.DIFFIC BREATH GIVE OXY.PB:REMOVE FROM EXPO,GARGLE,WASH NOSE/LIPS;CONSULT DR.INGEST:ACID:GIVE LG QUANT OF H2O.DONT INDUCE VOMIT.CONSULT DR.PB:CONSULT DR IMMED.SKIN: ACID:FLUSH W/LG AMTS OF H2O FOR @LEA ST

15MINS.REMOVE CONTAM CLOTH COMPLETELY INCLUDE SHOES.PB:WASH IMMED W/SOAP/H2O.EYE:ACID/PB:FLUSH IMMED W/LG AMTS OF H2O FOR @LEAST 15MINS.CONSULT DR.

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

Flash Point:NA

Lower Limits:4.1 HYDROGEN

Upper Limits:74.2

Extinguishing Media:CO2, FOAM, DRY CHEMICAL.

Fire Fighting Procedures:BATT ON CHARGE SHUT OFF POWER.USE +PRESSURE SCBA.WATER APPLIED TO ELECTROLYTE GENERATES HEAT & CAUSES TO SPATTER.WEAR ACID-RESIST

CLOTHING.

Unusual Fire/Explosion Hazard:HI FLAMM H2 GAS GENERATED DURING BATT CHARG/OPERATION.AVOID FIRE/EXPLO RISK-KEEP SPARKS/OTHER IGN SOURCES AWAYF ROM BATT.DONT ALLOW METALLIC MATLS TO (SUPPLEME)

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

Spill Release Procedures:STOP MATL FLOW.CONTAIN/ABSORB SM SPILLS W/DRYSAND,EARTH,VERMI.DONT USE COMBUST MATLS.IF POSSIBLE CAREFULLY NEUTRA SPILL ACID W/SODA ASH,SODIUM BICARBONATE,LIME,ETC.WEAR ACID-RESIST CL

OTH,BOOTS,GLOVES, FCSHIELD.DONT ALLOW DISCHARGE OF UNNEUTRA TO SEWER

Neutralizing Agent:ELECTROLYTE(ACID):SODA ASH, SODIUM BICARBONATE, LIME, ETC.

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

Handling and Storage Precautions:STORE IN COOL DRY WELL VENTI AREA W/IMPERV SURFACE/ADQU CONTAIN IN EVENT OF SPILL.STORE UNDER ROOF-PROTECT AGAINST ADVERSE WEATHER CONDITIONS.

Other Precautions:SEPARATE FRO INCOMP MATLS.STORE/HNDL ONLY IN AREAS W/ADEQUA H2O SUPPL

Y/SPILL CNTRL.AVOID DMG TO CNTNR.KEEP AWAY FROM FIRE/SPARKS/HEAT.IN AREAS WHERE H2SO4 IS HNDL IN CONCEN >1% EMERG EYEWASH STATIONS/ SHOWERS SHOULD BE PROVIDED W/UNLIMIT H2O

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITONS.WHEN CONCENTRATIONS OF SULFURIC ACID MSIT ARE KNOWN TO EXCEED PEL USE NIOSHNIOSH APPROVED RESPIRATORY PROTECTION.

Ventilation:STORE/HNDL IN WELL-VENTILATED AREA.IF MECHANICAL VE

NTILATION IS USED COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves:RUBB,PLAST ACID-RESIST W/ELBOW LENG GAUN

Eye Protection:CHEMICAL GOGGLES OR FACE SHIELD.

Other Protective Equipment:WEAR PROT CLOTH WHEN FILL/HNDLF BATT.ACID-RESIST APRON.UNDER SEVERE EXPO/EMERG CONDITIONS WEAR ACID-RESIST CLOTH/BOOTS.

Work Hygienic Practices:HNDL BATT CAUT TO AVOID SPILLS.MAKE CERTAIN VENT CAPS ARE ON SECURELY.AOVID CONTACT W/INTERN COMPO.

Supplemental Safety and Health  
FIRE/EXPLO:SIMULTANEOUSLY

CONTACT +/- TERMINALS OF CELLS/BATT.FOLLOW  
MFG'S INSTRUCTIONS FOR INSTALLATION/SERV. INCOMPAT:CONTACT PROD  
TOXI SO2 FUMES,MAY RELEASE FLAMM H2.PD:AVOID STRONG ACID,BASES,HALI  
DES.HALOGENATES,KNO3,PERMANGANATE,PEROXIDES,NASCENT H2,REDUCING  
AGENTS CONTACT. HAZ DECOMPO:GENERATE ARSINE GAS.SARA CHM

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

HCC:Z4

Boiling Pt:B.P. Text:203F,95C

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NP

Vapor Pres:10

Vapor De

nsity:>1

Spec Gravity:1.215-1.350

pH:NP

Evaporation Rate & Reference: