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YUASA-EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-324-1958

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

Product ID:LEAD-ACID BATTERY

MSDS Date:09/01/1993

FSC:6140

NIIN:01-324-1958

MSDS Number: BTRRV === Responsible Party ===

Company Name: YUASA-EXIDE CORP

Address:645 PENN STREET

City:READING

State:PA

ZIP:19612-4205 Country:US

Info Phone Num:215-378-0798

Emergency Phone Num:215-378-0500/800-424-9300(CHEMTREC)

CAGE:KO888

=== Contractor Identification === 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: YUASA-EXIDE CORP

Address:645 PENN STREET

Box:City:READING (FORMALLY IN HORSHAM)

State:PA

ZIP:19612-4205 Country:US

Phone:610-378-0550/ FAX -0616

CAGE:KO888

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by

Wt: 60%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.15 MG/M3, DUST; 9394

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: ANTIMONY (SARA III)

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; 9394

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: ARSENIC (SARA III)

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; 9394 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:CALCIUM

CAS:7440-70-2

RTECS #:EV8040000 Fraction by Wt: 0.2%

Other REC Limits: NONE RECOMMENDED

Ingred 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; 9394

Ingred Name: SULFURIC ACID (SARA III) (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; 9394

EPA Rpt Qty:10

00 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:PROPENE POLYMERS (POLYPROPPYLENE)

CAS:9003-07-4

RTECS #:UD1842000 Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name: POLYSTYRENE

CAS:9003-53-6

Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name: STYRENE ACRYLONITRILE

CAS:9003-54-7

RTECS #:AT6978000 Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name: ACRYLONITRILE BUTADIENE STYRENE

CAS:9003-56-9

RTECS #:AT6970000 Fraction by Wt: SEE #16%

Other RE

C Limits: NONE RECOMMENDED

Ingred Name: STYRENE BUTADIENE

CAS:9003-55-8

RTECS #:WL6478000 Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name: POLYVINYL CHLORIDE

CAS:9002-86-2

RTECS #:KV0350000 Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name:POLYCARBONATE

Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name:HARD RUBBER

Fraction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name:POLYETHYLENE

CAS:9002-88-4

RTECS #:TQ3325000

F

raction by Wt: SEE #16%

Other REC Limits: NONE RECOMMENDED

Ingred Name: CASE MATERIAL, TOTAL OF INGREDIENTS #7 THRU 15.

Fraction by Wt: 5-10%

Other REC Limits: NONE RECOMMENDED

Ingred Name: SILICON DIOXIDE (GEL BATTERIES ONLY) (SEE INGRED #19)

CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 RDUST; Z-3 ACGIH TLV:0.1 MG/M3 RDUST;9394

Ingred Name: SHEET MOLDING COMPOUND (GLASS-REINFORCED POLYESTER) (SEE

INGRED #19) Fraction by Wt: 10%

Other

REC Limits:NONE RECOMMENDED

Ingred Name:OTHER(INORG PB & ELECTROLYTE PRIM CMPNTS OF EVERY BATTERY MFG BY YUASA-EXIDE.OTHER INGRED MAY BE PRESENT DEPENDS ON TYP)

RTECS #:9999999ZZ

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT KNOWN

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:H2SO4:INHAL:SEVER RESP
IRRIT.I

NGEST:IRRT MOUTH/THROAT/ESOPHAGUS/STOMACH.SKIN/EYE:SEVE IRRIT,BURNS,ULCERATION,BURNS,CORNEA DAMAGE,BLINDNESS.PB CMPDS:INHAL:IRRT UPPER RESP TRACT & LUNGS.INGEST:SYS TOXIC ITY.EYE:IRRIT.CHRONIC:TOOTH ENAMEL,INFLAMM OF NOSE/THROAT/BRONCHIAL TUBES.ANEMIA,NEUROPATHY(MOTOR NERVES)KID/REPROD DAMA

Explanation of Carcinogenicity:PER MSDS:H2SO4 MIST FROM MISUSE OF PRODUCT. LEAD CMPDS. ARSENIC.

Effects of Overexposure:SKIN IRRIT, DAMAGE TO CORNEA, UPPER RESP IRRIT. SYMPTOMS OF TOXI

CITY OF LEAD CMPDS WHEN PRODUCT HEATED, OXIDIZED OR OTHERWISE PROCESSED OR DAMAGED TO CREATE DUST/VAPOR/FUME:HEADACHE, FATIGUE, ABDOMINA L PAIN, LOSS OF APPETITE, MUSCULAR ACHES& WEAKNESS, SLEEP DISTURBANCES & IRRITABILITY.

Medical Cond Aggravated by Exposure:OVEREXPOSURE TO H2SO4 MIST MAY CAUSE LUNG DAM, AGGRAVATE PULM CONDITIONS. H2SO4 CONTACT W/SKIN MAY AGGRAVATE SKIN DISEASES (ECZEMA & CONTACT DERM). PB & CMPDS CAN AGGRAVATE SOME FORMS OF KID/LIV/NEURO DIS

First Aid:INHAL:ACID:REMOVE TO FRESH AIR IMMED. IF BREATH DIFFI GIVE OXY.PB:GARGLE,WASH NOSE/LIPS.CALL DR.INGEST:ACID:GIVE LG QUANTITIES OF H2O.DON'T INDUCE VOMIT.CALL DR.SKIN:ACID:FLUSH W/LOTS AMTS OF H2O FOR @ LEAST 15MINS.REMOVE CONTAMIN CLOTH/SHOE.PB:WASH IMMED W/SOAP & WATER.EYE:ACID/PB:FLUSH IMMED W/LG AMTS OF H2O FOR @ LEAST 15MINS.SEE DR.

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

Low

er Limits:4.1 H2 GAS Upper Limits:74.2

Extinguishing Media: CARBON DIOXIDE, FOAM, DRY CHEMICAL.

Fire Fighting Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWER.

USE + PRES SCBA. WATER APPLIED TO ELECTROLYTE GENERATES HEAT &

CASUES IT TO SPATTER. WEAR ACID-RESISTANT CLOTHING.

Unusual Fire/Explosion Hazard:HIGHLY FLAMM H2 GAS GENERATED DURING CHARG/OPER OF BATTERY.KEEP SPARKS OR OTHER SOURCES OF IGN AWAY.DON'T ALLOW METALLIC MATLS TO CONTACT -/+ TERMINALS.

======= A ccidental Release Measures ===========

Spill Release Procedures:STOP FLOW.CONTAIN/ABSORB SM SPILLS W/DRY SAND,EARTH,VERMI.DON'T USE COMBUST MATLS.CAREFULLY NEUTRALIZE ELECTROLYTE W/SODA ASH,SODIUM BICARBONATE,LIME,ETC.WEAR ACID-RESISTANT CLOTH,BOOT,GLOV,FACESHIELD .DON'T ALLOW DISCHARGE OF UNTREATED ACIDTO SEWER.

Neutralizing Agent: SODA ASH, SODIUM BICARBONATE, LIME.

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

Handling and Storage Precautions:ST

ORE BATTERIES IN COOL, DRY, WELL-VENTI
AREAS W/IMPERVIOU SURFACES & ADEQUATE CONTAINMENT IN EVENT OF

SPILLS.SEPARATE FROM INCOMP MATLS, SPARKS, HEAT, FIR

Other Precautions:BATTERIES SHOULD ALSO BE STORED UNDER ROOF FOR PROTECTION AGAINST ADVERSE WEATHER CONDITIONS.STORE & HANDLE ONLY IN AREAS W/ADEQUATE H2O SUPPLY & SPILL CONTROL.AVOID DAMAGE TO CONTAINERS.FOLLOW MFG'S INSTRUCTIONS FOR INSTALLATION & SERVICE.

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

R

espiratory Protection:NONE REQUIRED UNDER NORMAL CONDITONS. WHEN CONCENTRATION OF H2SO4 MIST ARE KNOWN TO EXCEED PEL USE NIOSH OR MSHA APPROVED RESPIRATORY PROTECTION.

Ventilation:STORE & HANDLE IN WELL-VENTILATED AREA. IF MECHANICAL VENTILATION IS USED COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves: RUB, PLASTIC ACID RESISTANT W/ELBOW LENGT

Eye Protection: CHEMNICAL GOGGLES OR FACE SHIELD.

Other Protective Equipment:ACID-RESIS APRON.UNDER SEVERE EXPOSURE OR EMERG CONDITIONS W

EAR ACID-RESIS CLOTH/BOOTS.EYEWASH & SHOWERS W/UNLIM H2O SUP

Work Hygienic Practices: HANDLE CAUTIOUSLY TO AVID SPILLS. MAKE CERTAIN VENT CAPS ON SECURLEY. AVOID CONTACT W/INTERNAL COMPONENTS.

Supplemental Safety and Health

CONSULT STATE ENVIRONEMNTAL AGENCY &/OR FED EPA FOR DISPOSAL. WEAR PROTECTIVE CLOTHING WHEN FILLING OR HANDLING BATTERIES.

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

HCC:C1

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

Vapor Pres:10 Vapor Density:>1

Spec

Gravity:1.215-1.350

Evaporation Rate & Deference: