

EXIDE CORP/YUASA EXIDE INC. -- BATTERY ELECTROLYTE -- 6140-01-446-9498

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

Product ID:BATTERY ELECTROLYTE

MSDS Date:04/01/1996

FSC:6140

NIIN:01-446-9498

MSDS Number: CFYVH

=== Responsible Party ===

Company Name:EXIDE CORP/YUASA EXIDE INC.

Address:645 PENN STREET

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:610-378-0550/208-1975

Emergency Phone Num:6

10-378-0500/800-424-9300(CHEMTREC)

CAGE:KO556

=== 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:EXIDE CORP/YUASA EXIDE INC.

Address:645 PENN STREET

Box:14145

City:READING

State:PA

ZIP:19612-4205

Country:US

Phone:610-378-0550/208-1975

CAGE:KO556

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

Ingred Name:SULFURIC ACID (SARA 302/313) (CERC

LA)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 30 - 40%  
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:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 60 - 70%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOT RELEVANT  
ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:RAT,LC50:510MG/M3/2H;LD50:2140MG/KGRTECS  
Routes of Entry: Inhalation:NO  
Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY &  
GI TRACTS. ACUTE- CORROSIVE! CAUSES SEVERE EYES, SKIN & ALL BODY  
TISSUE BURNS. EYE DAMAGE MAY BE PERMANENT. MAY CAUSE SKIN  
ULCERATION. MIST IS IRRITATING TO RESP IRATORY TRACT. INGESTION  
CAUSES SEVERE BURNS. CHRONIC- MAY CAUSE DENTAL EROSION, IMPAIRED  
LUNG FUNCTION.  
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDI  
ENTS AT  
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT  
CARCINOGENS.  
Effects of Overexposure:SEVERE IRRITATION AND BURNING, VISUAL  
IMPAIRMENT, DENTAL EROSION, COUGH, SEVERE PAIN, BLINDNESS,  
WHEEZING, ABNORMAL LUNG SOUNDS, SKIN ULCER, ITCHING AND RASH,  
BLEEDING, VOMITING, DIARRHEA  
Medical Cond Aggravated by Exposure:OPEN WOUNDS AND SORES, RESPIRATORY  
AILMENTS SUCH AS EMPHYSEMA AND BRONCHITIS.

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

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First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN: IMMEDIATELY  
FLUSH WITH WATER FOR 15-20 MINUTES. HOLD EYELIDS OPEN. CONTINUE  
RINSING EYES WITH NORMAL SALINE UNTIL PH=7. INHALED:REMOVE TO FRESH  
AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF  
CONSCIOUS, DRINK LARGE AMOUNT OF WATER/MILK. INGESTED ACID MUST BE  
DILUTED ABOUT 100 FOLDS. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS.

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

Flash Point:NONE  
Lower Limits:NOT RELEVANT  
Upper Limits:NOT RELEVANT  
Extinguishing Media:WATER FOG, CARBON DIOXIDE, FOAM OR DRY CHEMICAL.  
USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-  
APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE  
OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:MAY REACT WITH ORGANIC MATERIAL OR WATER  
YIELDING HEAT. TOXIC GASES MAY BE FORMED.

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

Spill Release Procedures:VENTILATE AREA AND NEUTRALIZE SPILL WITH SODA  
ASH/LIME. ABSORB WITH INERT MATERIAL. SCOOP INTO A SUITABLE  
CONTAINER FOR DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS,  
WATERWAYS OR LOW AREAS.  
Neutralizing Agent:SUITABLE ALKALI SUCH AS LIME OR SODA ASH

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE  
MATERIALS. KEEP OUT  
OF REACH OF CHILDREN.  
Other Precautions:AVOID BREATHING MISTS. DO NOT GET IN EYES, ON SKIN OR  
ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR  
DRINKING. DO NOT INGEST.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR WITH CANISTER  
APPROVED FOR SULFURIC ACID VAPOR AND MIST IF TLV EXCEEDED.  
Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV  
REQUIREMENTS.  
Protective Gloves:RUBBER

OR LATEX

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING, ACID RESISTANT BODY  
SUIT, SAFETY SHOWER, EYEWASH.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES.

Supplemental Safety and Health

THIS IS FOR ELECTROLYTE. FOR DRY BATTERY, SEE PNI A, SAME NSN.

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

HCC:C1

NRC/State Lic Num:NOT RELEVANT

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

Mel

t/Freeze Pt:M.P/F.P Text:NOT GIVEN

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:10 @ 68F

Vapor Density:>1

Spec Gravity:1.245 - 1.295

pH: