Product ID:NP 4-12 MSDS Date:01/02/1991 FSC:6140 NIIN:01-299-8849 MSDS Number: CGMKV === Responsible Party === Company Name: EXIDE CORP Address:645 PENN ST City:READING State:PA ZIP:19612-4205 Country:US Info Phone Num:215-378-0798 Emergency Phone Num:800-424-9300 CHEMTREC CAGE:20038 === Contractor Identification === Comp any Name: BATTERY OUTLET OF HAMPTON INC Address:2815 GEORGE WASHINGTON HWY Box:City:TABB State:VA ZIP:23602 Country:US Phone:804-867-8280 CAGE:0FTM0 Company Name: ENERSYS INC Address:8306PATUXENT RANGE RS SUITE 103 Box:City:JESSUP State:MD ZIP:20794-8609 Country:US Phone:301-381-8500 OR 215-378-0757 CAGE:90660 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 INC Address:2366 BERNVIL

LE ROAD Box:14145 City:READING State:PA ZIP:19612-4145 Country:US Phone:610-208-1975 CAGE:77280

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) 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:LEAD (SARA 313) (CERCLA) CAS:7439-92-1 RTECS #:OF7525000 Fraction by Wt: 60% Other REC Limi ts: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, A 1; 9596 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 OSHA PEL:2000 UG/M3 ACGIH TLV:2000 UG/M3

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; 9596

Ingred Name:POLYPROPYLENE CAS:9003-07-0 Fraction by Wt: 5-10% Other REC Limits:NONE RECOMMENDED

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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: ACUTE-CONTACT WITH ACID CAUSES SEVERE BURNS TO ALL TISSUE. INGESTION MAY BE FATAL; CAUSES SEVERE BURNS & ULCERATION. INHALATION CAUSES SEVERE RESPIRATORY IRRITATION. IF LEAD ALLOY DUST IS PRESENT, MAY CAU SE WEIGHT LOSS, LASSITUDE, CONSTIPATION, ANEMIA, VOMITING, PARALYSIS & CNS DEPRESSION. CHRONIC-SKIN ULCERATION & DERMATITIS. Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN. Effects of Overexposure: CONTACT WITH ACID CAUSES SEVERE BURNS TO ALL **TISSUE. INGESTION CAUSES SEVERE BURNS & ULCERATION. INHALATION** CAUSES SEVERE RESPIRATORY IRRITATION. IF LEAD ALLOY DUST IS PRESENT, MAY CAUSE WEIGHT LOSS, LASSITUDE, CONSTIPATION, ANEMIA,

VOMITING, PARALYSIS & CNS DEPRESSION.

Medical Cond Aggravated by Exposure:

## PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THIS MATERIAL.

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First Aid:GET IMMEDIATE MEDICAL ATTENTION IN ALL CASES.EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.HOLD EYELIDS OPEN & REMOVE CONTACT LENSES.INHALED:REMOVE TO FRESH AIR.INGESTION: DO NOT INDU CE VOMITING.DRINK AS MUCH MILK/WATER ASPOSSIBLE WITHOUT VOMITING.
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<ul> <li>Flash Point:NON FLAMMABLE</li> <li>Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. DO NOT SPRAY WATER OVER ACID.</li> <li>Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.</li> <li>Unusual Fire/Explosion Hazard:WATER APPLIED TO SULFURIC ACID GENERATES HEAT AND CAUSES ACID TO SPATTER. REACTS WITH MOST METALS TO YIELD EXPLOSIVE/FLAMMABLE HYDROGEN GAS.</li> </ul>
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Spill Release Procedures: AVOID CONTACT WITH SULFURIC ACID ELECTROLYTE FROM BATTERY. LIME OR SODA ASH MAY BE USED TO NEUTRALIZE AND/OR FLUSH WITH LARGE VOLUME OF WATER. Neutralizing Agent: SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE).
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<ul> <li>Handling and Storage Precautions:STORAGE-STORE BATTERIES IN COOL,VENTILATED PLACE AWAY FROM FLAMES,WATER &amp; STRONG BASES.</li> <li>Other Precautions:AVOID SKIN CONTACT. WHEN CHARGING BATTERIES, AVOID PLACING IN AREAS WHERE HYDROGEN GAS CAN BUILD UP. KEEP BATTERIES</li> </ul>
AWAY FROM CHILDREN. DO NOT GET IN EYES. DO NOT BREATHE VAPORS OR MISTS.
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Respiratory Protection:USE NIOSH-APPROVED RESPIRATOR FOR ACIDS IF 1 MG/M3 TWA IS EXCEEDED (ACID). Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CHARGING STATIONS Protecti

ve Gloves:RUBBER Eye Protection:SPLASH-PROOF SAFETY GOGGLES Other Protective Equipment:USE RUBBER BOOTS AND ACID-PROOF CLOTHING FOR MAJOR SPILLS.EYES WASH STATION AND SAFETY SHOWER. Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health PUT IN AS PNI B TO HIGHLIGHT FOR DDRV.

HCC:N1 Boiling Pt:B.P. Text:203F,95C Melt/Freeze Pt:M.P/F.P Text:-103F,-75C Vapor Pres:10 Vapor Density:> 1 Spec Grav ity:1.245 - 1.295 pH:< 1 Solubility in Water:COMPLETE (SULFURIC) Appearance and Odor:COLORLESS, ODORLESS LIQUID (ELECTROLYTE)

Stability Indicator/Materials to Avoid:YES
COMBUSTIBLES, ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND SPARKS (IF
HYDROGEN GAS IS GENERATED)
Hazardous Decomposition Products:MAY FORM SULFUR TRIOXIDE, SULFUR
DIOXIDE, SULFURIC ACID FUMES
AND OTHER TOXIC GASES SUCH AS HYDROGEN
CYANIDE OR SULFIDE.

Waste Disposal Methods:NEUTRALIZE WITH SOLUTION OF BAKING SODA IN WATER. DO NOT INCINERATE. DISPOSE WITH AUTOMOTIVE BATTERY SCRAP (CONTAINING LEAD) IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Depa

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