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GP BATTERIES INTERNATIONAL LTD. -- GP23A, ALKALINE HIGH VOLTAGE BATTERY 4220-01-372-5191

Product ID:GP23A, ALKALINE HIGH VOLTAGE BATTERY MSDS Date:02/11/1997 FSC:4220 NIIN:01-372-5191 Status Code:A MSDS Number: CKGNS === Responsible Party === Company Name: GP BATTERIES INTERNATIONAL LTD. Address: GPI BUILDING, 30-34 KWAI WING ROAD City:KWAI CHUNG, N.T., HONG KO NG Country:HK Info Phone Num:852 480 3991 Emergency Phone Num:852-480-3991 Preparer's Name: A. GAMBRELL CAGE:TO574 === Contractor Identification === Company Name: GP BATTERIES (USA) Address:11235 W. BERNARDO CT **City:SAN DIEGO** State:CA ZIP:92127 Country:US Phone:619-674-5620 FX:619-674-7237 CAGE:TO575 Company Name: GP BATTERIES INTERNATIONAL LTD. Address: GPI BUILDING, 30-34 KWAI WING ROAD City:KWAI CHUNG, N.T., HONG KONG Country:HK Phone:852 480 3991 CAGE:TO574 Company Name: PRO BATTERY CO INC Addres s:3941 OAKCLIFF INDUSTRIAL CT Box:City:ATLANTA State:GA ZIP:30340-3408 Country:US Phone:770-449-5900 Contract Num:SP0760-98-M-T012 CAGE:5X783

Ingred Name:MANGANESE DIOXIDE CAS:1313-13-9 RTECS #:OP0350000 Minumum % Wt:16.8 Maxumum % Wt:18.9 OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:MERCURY

Rpt Qty:1 LB
Ingred Name:ZINC CAS:7440-66-6 RTECS #:ZG8600000 Minumum % Wt:4.8 Maxumum % Wt:5.6 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS
Ingred Name:SODIUM HYDROXIDE AND POTASSIUM HYDROXIDE MIXTURE (30-35% SOLUTION) Minumum % Wt:6.4 Maxumum % Wt:6.6
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Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Effects of Overexposure:IN CASE OF ELECTROLYTE LEAKAGE, SKIN WILL BE
ITCHY WHEN CONTAMINATED BY ELECTROLYTE.
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First Aid:IF ELECTROLYTE LEAKAGE OCCURS AND MAKES CONTACT WITH THE SKIN, WASH IMMEDIATELY. IF ELECTROLYTE COMES INTO CONTACT WITH THE EYES WASH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES AND CONTACT A PHYSICI AN.
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Unusual Fire/Explosion Hazard:WHEN EXPOSED TO EXCESSIVE HEAT, CELL MAY BURST.
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Spill Release Procedures:USE NEOPRENE, RUBBER LATEX-NITRILE GLOVES WHEN HANDLING LEAKS. IF ELECTROLYTE LEAKAGE OCCURS AND MAKES CONTACT WITH THE SKIN, WASH IMMEDIATELY. IF ELECTROLYTE COMES INTO CONTACT WITH THE EYES, WASH WI TH COPIOUS AMOUNTS OF WATER FOR FIFTEEN (15) MINUTES AND CONTACT A PHYSICIAN.
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Handling and Storage Precautions: THE BATTE

RY IS EXTREMELY SENSITIVE TO ADVERSE EFFECT OF HUMIDITY. BE SURE TO STORE THEM IN A PLACE WHICH IS DRY AND SUBJECT TO LITTLE TEMPERATURE CHANGE. DO NOT PLACE NEAR ANY HEAT SOURCE, NOR EXPOSE TO DIRECT SUNLIGHT. DO NOT DISPOSE OF THE BATTERY IN FIRE. DO NOT CHARGE THE BATTERY. Other Precautions:DO NOT SHORT-CIRCUIT THE BATTERY. DO NOT INSERT THE BATTERY IN REVERSE POSITION. DO NOT DISSEMBLE THIS BATTERY, HANDLING IN SUCH MANNER CAN CAUSE THE BATTERY TO EXPLODE, LEAK AND

CAUSE INJURY.

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

Supplemental Safety and Health

HCC:B3

Evaporation Rate & amp; Reference:N/A (BUAC=1) Appearance and Odor:CYLINDRICAL SHAPE, ODORLESS

Stability Indicator/Materials to Avoid:YES

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