

Product ID:BA-1006/U MSDS Date:12/10/1997

FSC:6135

NIIN:00-299-6918

MSDS Number: CFTFK === Responsible Party ===

Company Name: VARTA INDUSTRIAL BATTERIES LTD.

Address:72 DEVON RD UNIT 22

City:BRAMPTON ONT

Country:CA

Info Phone Num:905-790-0730

Emergency Phone Num:905-790-0730 Preparer's Name:DSCR-VBA(LEVIEN)

CAGE:36129

=== Contractor Identification ===

Company Na

me: VARTA INDUSTRIAL BATTERIES

Box:City:BRAMPTON

State:ON Country:CA

Phone:416-790-0730

CAGE:36129

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

Ingred Name:POTASSIUM HYDROXIDE (CERCLA)

CAS:1310-58-3

RTECS #:TT2100000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9596

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: MERCURIC OXIDE (SARA 302/313) (CERCLA)

CAS:21908-53-2

RTECS #:OW8750000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG (H

G)/M3; Z-2 ACGIH TLV:S,0.025 MG(HG)/M3;96

Ingred Name: MERCURY (SARA 313) (CERCLA)

CAS:7439-97-6

RTECS #: OV4550000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C, 0.1 MG/M3; Z-2 ACGIH TLV:S,0.025 MG/M3; A4;96

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

Ingred Name: ZINC (SARA 313) (CERCLA)

CAS:7440-66-6

RTECS #:ZG8600000

Other REC Limits: NONE RECOMMENDED

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG MN

/M3 CEILING

ACGIH TLV:5 MG MN/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EXPOSURE TO MERCURY-ACUTE:

SKIN:IRRITATION, ANURIA. EYE:IRRITATION, CORNEAL INJURY OR BURNS.

INGESTION: IMMEDIATE NECROSIS IN MOUTH, THROAT, ESOPHAGUS & STOMACH.

DEATH MAY OCCURE. INHALATION: DYSPNEA, C OUGH, FEVER, NAUSEA &

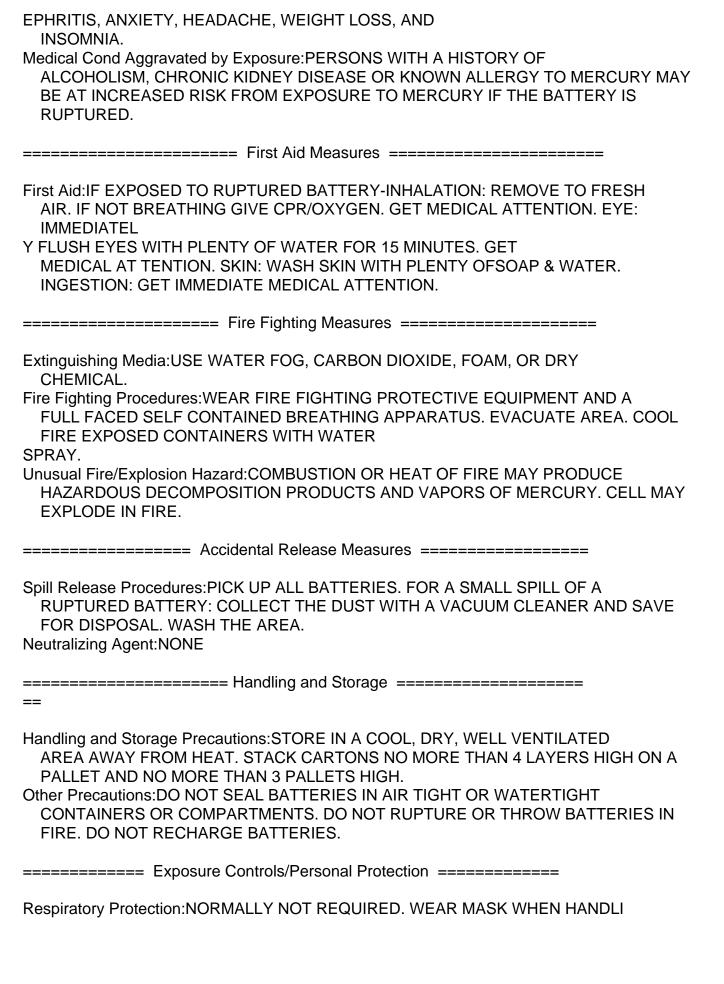
VOMITING, DIAR

RHEA, STOMATITIS, SALIVATION & METALLIC TASTE.

CHRONIC: CNS DISTURBANCES.

Explanation of Carcinogenicity: MERCURY, ZINC AND MANGANESE ARE NOT LISTED BY IARC, NTP, OR OSHA AS CARCINOGENS.

Effects of Overexposure:TREMORS, CONVULSIONS & OTHER CNS DISTURBANCES, PNEUMONITIS, CHEST PAINS, DYSPNEA, COUGHING, STOMATITIS, GINGIVITIS AND LOOSENING OF TEETH, SALIVATION, LOSS OF MEMORY, METALLIC TASTE, DIZZINESS, CLUMSI NESS, SLURRED SPEECH, DIARRHEA, PAIN & NUMBNESS IN EXTREMITIES, N



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DUST FROM RUPTURED BATTERY.

Ventilation: GENERAL/LOCAL EXHAUST VENTILATION.

Protective Gloves: RUBBER, IF HANDLING RUPTURED BATTERY.

Eye Protection: NONE

Other Protective Equipment: NONE REQUIRED.

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

Supplemental Safety and Health

THIS MSDS WAS GENERATED FROM RAYOVAC AND BATTERY TECNOLOGIES MSDS'S AND MIL-B-18/217B.THERE ARE NO HEALTH HAZARDS IN HANDLING BATTERIES UNLESS THE BATTERIES ARE RUPT

URED. WHEH HANDLING RUPTURED BATTER Y

DO NOT GET ON SKIN, IN EYES OR ON CLOTHING. DO NOT BREATHE VAPORS.

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

HCC:N1

Solubility in Water: INSOLUBLE

Appearance and Odor:BUTTON BATTERY,0.61 IN DIAMETER X 0.233 IN HEIGHT,1.3 VOLTS.

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES STRONG ACIDS AND BASES Stability Condition to Avoid:HIGH TEMPERATURES Hazardous Decom

position Products:THERMAL DECOMPOSITION PRODUCTS INCLUDE TOXIC MERCURY VAPORS, AND CORROSIVE MATERIALS WHEN INTEGRITY OF CELL IS BROKEN.

====== Disposal Considerations ==========

Waste Disposal Methods:DO NOT INCINERATE, BURY IN LANDFILL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATION.

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