

VARTA INDUSTRIAL BATTERIES LTD. -- BA-1006/U -- 6135-00-299-6918

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

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 Name: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 (HG)/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  
RTEC  
S #: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:DYSYPNEA, C OUGH, FEVER, NAUSEA &  
VOMITING, DIARRHEA, 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, NEPHRITIS, ANXIETY, HEADACHE, WEIGHT LOSS, AND  
INSOMNIA.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF  
ALCOHOLISM, CHRONIC KIDNEY DISEASE OR KNOWN ALLERGY TO MERCURY MAY  
BE AT INCREASED RISK FROM EXPOSURE TO MERCURY IF THE BATTERY IS  
RUPTURED.

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

First Aid:IF EXPOSED TO RUPTURED BATTERY-INHALATION: REMOVE TO FRESH  
AIR. IF NOT BREAT  
HING GIVE CPR/OXYGEN. GET MEDICAL ATTENTION. EYE:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. GET  
MEDICAL AT TENTION. SKIN: WASH SKIN WITH PLENTY OFSOAP & WATER.  
INGESTION: GET IMMEDIATE MEDICAL ATTENTION.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARA  
TUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE  
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS OF MERCURY. CELL MAY  
EXPLODE IN FIRE.

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

Spill Release Procedures:PICK UP ALL BATTERIES. FOR A SMALL SPILL OF A  
RUPTURED BATTERY: COLLECT THE DUST WITH A VACUUM CLEANER AND SAVE  
FOR DISPOSAL. WASH THE AREA.  
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED  
AREA AWAY FROM HEAT. STACK CARTONS NO MORE THAN 4 LAYERS HIGH ON A  
PALLET AND NO MORE THAN 3 PALLETS HIGH.  
Other Precautions:DO NOT SEAL BATTERIES IN AIR TIGHT OR WATERTIGHT  
CONTAINERS OR COMPARTMENTS. DO NOT RUPTURE OR THROW BATTERIES IN  
FIRE. DO NOT RECHARGE BATTERIES.

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

Res

piratory Protection:NORMALLY NOT REQUIRED. WEAR MASK WHEN HANDLING  
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 RUPTURED. 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 BASE

S

Stability Condition to Avoid:HIGH TEMPERATURES

Hazardous Decomposition 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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