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Product ID:39411-003 MSDS Date:07/15/1999 FSC:6140 NIIN:01-086-3440 MSDS Number: BHBVC === Responsible Party === Company Name: MARATHON BATTERY CO. Address:8301 IMPERIAL DRIVE Box:8233 City:WACO State:TX ZIP:76714-8233 Country:US Info Phone Num:817-776-0650 Emergency Phone Num:817-776-0650/800-424-9300(CHEMTREC) Preparer's Name: TERRY G. MESSING Chemtrec Ind/Phone:(800)424-9300 CAGE:DO446 === Contractor Identification === **Company Name: MARATHON BATTERY COMPANY** Address:8301 IMPERIAL DRIVE Box:8233 City:WACO State:TX ZIP:76710 Phone:301-321-5200 CAGE:DO446 Company Name: MARATHON POWER TECHNOLOGIES CO Address:8301 IMPERIAL DR Box:City:WACO State:TX ZIP:76712-6588 Country:US Phone:254-741-5405 Contract Num:SP0430-99-D0331-0002 CAGE:74025

Ingred Name:POTASSIUM HYDROXIDE (SARA III) CAS:1310-58-3 RTECS #:TT2100000 Other REC Limits:NONE SPECIFIED OSHA PEL:C, 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:CADMIUM (SARA III) CAS:7440-43-9 RTECS #:EU9800000 Other REC Limits:NONE SPECIFIED OSHA PEL:SEE 1910.1027 ACGIH TLV:0.01 MG/M3 DUST;9394 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE CAS:21041-95-2 Other REC Limits:NONE SPECIFIED OSHA PEL:0.1 MG/M3 (CD FUME) ACGIH TLV: 0.05 MG/M3 (CD FUME)

Ingred Name:NICKEL HYDROXIDE (SARA III) CAS:12054-48-7 RTECS #:QR7040000 Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG NI/M3 ACGIH TLV:0.1 MG NI/M3; 9293 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

LD50 LC50 Mixture:LD50 ORAL RAT IS 225 MG/KG Routes of Entry: Inhalation:NO Ski n:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE NO
EXPOSURE TO HAZARDOUS COMPONENTS EXIST. IF INCINERATED ,MAY CAUSE IRRITATION TO RESPIRATORY SYSTEM, FUMES WILL ALSO IRRITATE EYES, ALKALI IS CORROSIVE TO ALL TISSUE S (ACUTE). CHRONIC:MAY CAUSE LUNG INJURY AND KIDNEY DYSFUNCTION.
Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED UNDER NTP AND IARC.
Effects of Overexposure
:EYES:SEVERE IRRITATION, PAIN, BURNS, VISION PROBLEMS. SKIN: IRRITATION, POSSIBLE CHEMICAL BURNS. INHALATION: SEVERE IRRITATION, COUGHING, SWEATING, CHILLS, FEVER, KIDNEY DISORDERS. INGESTION: CORROS IVE TO DIGESTIVE SYSTEM.

Medical Cond Aggravated by Exposure:IF INCNERATED, INDIVIDUALS WITH PRE-EXISTING RESPIRATORY DISORDERS,M PROSTATE, LIVER, KIDNEY AND VISION PROBLEMS MAY BE AT INCREASED RISK.

First

Aid:IF CONTACT WITH POTASSIUM HYDROXIDE OCCURS, FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN. SEE DOCTOR. IF INHALATED, REMOVE TO FRESH AIR AND CONTACT PHYSICIAN IMMEDIATELY.

Flash Point:NONE

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EV

ACUATE AREA. COOL

FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS SUCH AS CADMIUM AND NICKEL FUMES.

Spill Release Procedures: VENTILATE AREA. EVACUATE PERSONNEL. WEAR APPROPIATE PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB IN INERT INDUSTRIAL ABSORBENT AND PLACE IN DOT-APPROVED CONTAINERS FOR DISPOSAL. WASH AREA WITH LARGE AMOU NTS OF WATER. Neutralizing Agent:5% ACETIC ACID SOLUTION.

Handling and Storage Precautions:DO NOT INVERT BATTERY. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY.

Other Precautions:DO NOT BREAK OPEN OR INCINERATE BATTERIES. DO NOT BREATHE MIST. AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING.

Respiratory Protection:NONE UNDER NORMAL USE. WEAR NIOSH-APPROVED MIST MASK WHEN HANDLING LIQUID OR WHEN THE IS A DANGER FOR INHALING FUMES..

Ventilation:LOCAL EXHAUST WHEN HANDLING THE LIQUID IN THE BATTERY.

- Protective Gloves: RUBBER GLOVES WHEN HANDLING ELECTROLYTE OR BROKEN BATTERIES..
- Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD WHEN HANDLING BROKEN BATTERIES.

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE SMOKING OR EATING. LAUNDER CONTAMINATED CLOTHING. DISCARD CONTAMINATED SHOES.

Supplemental Safety and Health

UNDER NORMAL USE THE ITEM IS NON-HAZARDOUS.

HCC:Z7 Solubility in Water:COMPLETE Appearance and Odor:SOLID BATTERIES, 12 VOLT. Percent Volatiles by Volume:UNKNON

======= Stability

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

 Waste Disposal Methods:SEND TO RECLAIMING CENTER FOR RECLYING OR REUSE, IF POSSIBLE. OR SEND TO LICENSED HAZARDOUS TREATMENT OR DISPOSAL SITE FOR DISPOSITION UNDER A
 PPLICABLE FEDERAL,STATE AND LOCAL REGULATIONS. DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

Transport Information: PER MSDS, FOR TRANSPORTATION PURPOSE THESE BATTERIES ARE NON-HAZARDOUS AND NOT SUBJECT TO ANY OF THE PROVISIONS OF 49 CFR PARTS 170-189.

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