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MARATHON BATTERY CO -- BATTERY, STORAGE -- 6140-01-150-5380

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

Product ID:BATTERY, STORAGE

MSDS Date:03/26/1990

FSC:6140

NIIN:01-150-5380

MSDS Number: BNWTG === 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

CAGE:DO44

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=== 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

CAGE:74025

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

Ingred Name: CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000

Other REC Limits: NONE SPECIFIED

OSHA PEL:SEE 191

0.1027

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 (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

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: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

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

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

Health Hazards Acute and Chronic:POTASSIUM HYDROXIDE: INHALATION OF

AIRBO

- RNE DUST OR MIST MAY CAUSE DAMAGE TO THE UPPER RESPIRATORY TRACT AND EVEN TO THE LUNG TISSUE. CADMIUM/CADMIUM HYDROXIDE: MAY CAUSE IRRITATION OF MUCOUS MEMBRANE S. CHRONIC EXPOSURE MAY CAUSE IRREVERSIBLE LUNG INJURY, KIDNEY DISEASE & OTHER ADVERSE EFFECTS.
- Explanation of Carcinogenicity: NICKEL/NICKEL COMPOUND ARE LISTED AS CARCINOGENIC TO HUMANS BY IARC.
- Effects of Overexposure: POTASSIUM HYDROXIDE: INHALATION CAN PRODUCE CHEMICAL PNEUMONIA. THIS MATERIAL IS DESTRUCTIVE TO SKI N TISSUE.
 - EYE TISSUE, & MOUTH, THROAT, STOMACH TISSUES. CADMIUM/CADMIUM HYDROXIDE: CAN PRODUCE DRYNES S OF THE MOUTH & THROAT, HEADACHE, NAUSEA & DIZZINESS. INGESTION CAN CAUSE NAUSEA, VOMITING, DIARRHEA
- & ABDOMINAL CRAMPS Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.
- First Aid:POTASSIUM HYDROXIDE: FLUSH EYES FOR 15 MINUTES WITH WATER AND WASH SKIN TISSUE WITH WATER. IF PATIENT IS CON-SCIOUS GIVE LARGE
 - QUANTITIES OF WATER. DO NOT INDUCE VOMITING. GET EMERGENCY MEDICAL ATTENTI ON.
- Extinguishing Media: USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRES.
- Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.
- Unusual Fire/Explosion Hazard: CONTACT WITH STRONG OXIDIZERS MAY **CAUSE**
 - FIRE OE EXPLOSION. CADMIUM FUMES OR VAPOR ARE TOXIC AND CAN CAUSE DEATH.
- ======== Accidental Release Measures ============
- Spill Release Procedures: BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE.
- ============= Handling and Storage ==========================
- Handling and Storage Precautions: DO NOT INVERT. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHY

SICAL INTEGRITY OF THE CELL OR BATTERY.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:WEAR A DUST OR MIST MASK WHEN HANDLING THE POTASSIUM HYDROXIDE SOLUTION. Ventilation:USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY. Protective Gloves:RUBBER GLOVES. Eye Protection:EYE GOGGLES AND FACE SHIELD. Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT. Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER USE AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health NONE
========= Physical/Chemical Properties ==========
HCC:B1 Boiling Pt:=716.7C, 1322.F Melt/Freeze Pt:=182.2C, 360.F Spec Gravity:2.044 Solubility in Water:52% W/W Appearance and Odor:WHITE; NO ODOR.
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZI NG AGENTS, NITRATES, NITRIC ACID. Hazardous Decomposition Products:NONE
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF CELLS AND BATTERIES IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
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