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

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:D O446 === 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

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 (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

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 AI

RBORNE 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 SKIN 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.
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First Aid:POTASSIUM HYDROXIDE: FLUSH EYES FOR 15 MINUTES WITH WATER AND WASH SKIN TISSUE WITH WATER. IF PATIENT IS CONSCIOUS GIVE LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. GET EMERGENCY MEDICAL ATTENTI ON.
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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.
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Spill Release Procedures:BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE.

Handling and Storage Precautions:DO NOT INVERT. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE

PHYSICAL 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 MINIM IZE SKIN CONTACT.
Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER USE AND BEFORE EATING, DRINKING OR SMOKING.
Supplemental Safety and Health NONE

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 Indicator/Materials to Avoid:YES STRONG OXID IZING AGENTS, NITRATES, NITRIC ACID. Hazardous Decomposition Products:NONE

Waste Disposal Methods:DISPOSE OF CELLS AND BATTERIES IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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