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MARATHON BATTERY CO -- BATTERY, STORAGE -- 6140-01-143-9645

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

Product ID:BATTERY, STORAGE

MSDS Date:12/09/1992

FSC:6140

NIIN:01-143-9645

MSDS Number: BRHBK === 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

Preparer

's Name:B. MULLEE

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

CAGE:74025

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

Ingred Name: CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000 Other REC Limits:NONE RECOMMENDED

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 RECOMMENDED

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 RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9293

Ingred Name: NICKEL HYDROXIDE (SARA III)

CAS:12054-48-7

RTECS #:QR7040000

Other REC Limits: NONE RECOMMENDED

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 RECOMMENDED

OSHA PEL:C, 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9293

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

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES

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Health Hazards Acute and Chronic:CORROSIVE TO ALL BODY TISSUES. CONTACT MAY CAUSE SEVERE IRRITATION AND BURNS. INHALATION MAY CAUSE MUCOUS MEMBRANE IRRITATION, LUNG TISSUE DAMAGE, CHEMICAL PNEUMONIA AND CENTRAL NERVOUS SYSTEM EFFECTS. IRREVERSIBLE LUNG INJURY, KIDNEY DISEASE, AND OTHER ADVERSE EFFECTS MAY RESULT FROM CHRONIC EXPOSURE.

Explanation of Carcinogenicity:NICKEL AND CADIUM ARE LISTED UNDER IARC AND NTP.

Effects of Overexposure: EYES/SKIN: IRRITATION, SE

VERE BURNS, SKIN

ULCERATION. INHALATION: UPPER RESPIRATORY SYSTEM IRRITATION, HEADACHE, NAUSEA, DIZZINESS. INGESTION: DIGESTIVE TRACT IRRITATION AND BURNING SENSATION, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL CRAMPS.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL

ATTENTION. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. GET MEDICAL AT TENTION. INGESTION: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY.

Flash Point: NONFLAMMABLE

Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures: NONFLAMMABLE. WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND

A FULL FACED SELF CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. CADMIUM FUMES OR VAPORS ARE TOXIC AND CAN CAUSE DEATH.

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

Spill Release Procedures:REMOVE PERSONNEL. ELIMINATE IGNITION SOURCES. VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. NEUTRALIZE CAUTIOUSLY. ABSORB IN INERT MATERIAL AND PLA

CE IN APPROPRIATE DISPOSAL CONTAINER AND CO VER. Neutralizing Agent:5% ACETIC ACID SOLUTION ============= Handling and Storage ========================== Handling and Storage Precautions: DO NOT INVERT. AVOID CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTERGRITY OF THE CELL OR BATTERY. Other Precautions: AVOID EYE AND SKIN CONTACT. DO NOT BREATHE VAPORS. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: NONE NORMALLY REQUIRED. NIOSH /MSHA APPROVED RESPIRATOR FOR CAUSTIC GASES OR SCBA AS APPROPRIATE FOR EXPOSURE OF CONCERN WHEN HANDLING THE LIQUID IN THE BATTERY. Ventilation: NO SPECIAL REQUIREMENT. HOWEVER, USE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY. Protective Gloves: RUBBER GLOVES WHEN HANDLING ELECTROLYTE Eye Protection: GOGGLES/FACESHIELD WHEN HANDLING LIQUID Other Protective Equipment: PROTECTIVE CLOTHING WHEN HANDLING THE LIQUID IN THE BATTERY. EYE BATH AND SAFETY SHOWER. Work Hy gienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health NONE ======== Physical/Chemical Properties =============== HCC:B1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NOT GIVEN Vapor Density: NOT GIVEN Spec Gravity: NOT GIVEN

Evaporation Rate & Reference: NOT GIVEN

Solubility in Water:52 % (KOH)

Appearance and Odor: CAUSTIC ELECTROLYTE IN BATTERY CASE

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Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products: METAL OXIDE FUMES MAY BE EVOLVED AT

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

TEMPERATURES ABOVE MELTING POINT.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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