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MARATHON POWER TECHNOLOGIES -- BATTERY, STORAGE P/N 37655-001 -- 6140-00-250-4884

Product ID:BATTERY, STORAGE P/N 37655-001

MSDS Date:02/03/1994

FSC:6140

NIIN:00-250-4884

MSDS Number: BSQZV === Responsible Party ===

Company Name: MARATHON POWER TECHNOLOGIES

Address:8301 IMPERIAL DRIVE

Box:8233 City:WACO State:TX

ZIP:76714-8233 Country:US

Info Phone Num:817-776-06

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Emergency Phone Num:817-776-0650/800-424-9300(CHEMTREC)

CAGE:74025

=== Contractor Identification ===

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:0.1MG/M3FUME;0.2DUST ACGIH TLV:0.05 MG/M3 DUST;9293

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:NOT ESTABLISHED. ACGIH TLV:NOT ESTABLISHED.

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:0.1 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: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE, NO

EXPOSURE TO

- HAZARDOUS COMPONENTS EXIST. IF INCINERATED, INHALATION
 OF FUMES MAY CAUSE RESPIRATORY SYSTEM IRRITATION. FUMES WILL ALSO
 IRRITATE EYE TISSUE (ACUTE): CH RONIC EXPOSURE MAY CAUSE KIDNEY
 DYSFUNCTION AND LUNG INJURY.
- Explanation of Carcinogenicity: CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. ALSO NICKEL.
- Effects of Overexposure:IF INCINERATED, CHEST PAIN, COUGHING, SWEATING, CHILLS, SHORTNESS OF BREATH AND WEAKNESS ALO
- NG WITH POSSIBLE EYE

IRRITATION.

Medical Cond Aggravated by Exposure:IF INCINERATED, RESPIRATORY SYSTEM DISORDERS, PROSTATE DISORDERS, LIVER AND KIDNEY DISORDERS, VISION PROBLEMS.

	First Aid Measures	
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First Aid:IF CONTACT WITH POTASSIUM HYDROXIDE ELECTROLYTE, FLUSH WITH WATER FOR 15 MINUTES AND CONTACT PHYSICIAN. IF INHALED, REMOVE FROM EXPOSURE AND CONTACT PHYSICIAN.

	Fire Fighting Measures	========
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Flash Point:NONE

- Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE
- Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE 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	==
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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.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Other Precautions: ANALYSIS OF THE MANUFACTURI

NG METHODOLOGY USED TO PRODUCE MARATHON NICKEL-CADMIUM CELLS HAS DETERMINED THAT, BELOW

320F (160C), THE CORROSIVE POTASSIUM HYDROXIDE ELECTROLYTE IS THE ONLY COMPOUND OF CO NCERN.

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

Respiratory Protection: WEAR A DUST OR MIST MASK WHEN HANDLING THE LIQUID IN THE BATTERY.

Ventilation: USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY.

Protective Gloves: RUBBER WHEN HANDLING LEAKERS

F

ye Protection: SAFETY GOGGLES/FACE SHIELD

Other Protective Equipment:PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

THE AMOUNT OF FREE POTASSIUM HYDROXIDE IN EACH UNIT WILL DEPEND ON STATE OF CHARGE. HOWEVER, THE CONSTRUCTION OF THE "SEALED" CELLS, PRECLUDES EXPOSURE TO ELECTROLYTE, EXCEPT IN DESTRUCTIVE ANALYSIS. THE SEALED CELLS HAVE THE POTENTIAL TO EXPLODE IF INCINERATED.

Physical/Chemical Properties =========

HCC:N1

Boiling Pt:B.P. Text:765F,407C

Melt/Freeze Pt:M.P/F.P Text:321F (CD)

Decomp Temp:Decomp Text:230,NI(OH)2

Appearance and Odor:ORANGE-BLACK (NICKEL HYDROXIDE), SILVER METAL(CD,

NI), WHITE (KOH, CD(OH)2)

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Deco

mposition Products: NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSDF). DISPOSAL SHALL BE BY APPROVED METHODS.

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