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MARATHON POWER TECHNOLOGIES -- NICKEL CADMIUM BATTERY -- 6140-01-241-2296

Product ID:NICKEL CADMIUM BATTERY

MSDS Date:07/15/1999

FSC:6140

NIIN:01-241-2296

Status Code:A

MSDS Number: CKZBD === Responsible Party ===

Company Name: MARATHON POWER TECHNOLOGIES

Address:8301 IMPERIAL DRIVE

Box:8233 City:WACO State:TX

ZIP:75714-8233 Country:US

Info Phone Num:254-776-0650

Emergency Phone Num:254-776-0650 Chemtrec Ind/Phone:(800)424-9300

CAGE:74025

=== Contractor Identification ===

Company Name: AERO QUALITY SALES

Address:47 HARBOR VIEW AVE

Box:City:STAMFORD

State:CT ZIP:06902 Country:US

Phone:203-351-8500

Contract Num:SP0411-01-M-EB26

CAGE:7R810

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 ========

In

gred Name:CADMIUM

CAS:7440-43-9

RTECS #:EU9800000 Fraction by Wt: NP

OSHA PEL:5 UG/M3(DUST) ACGIH TLV:0.01 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: CADMIUM HYDROXIDE

CAS:21041-95-2 RTECS #:EV1260000

OSHA PEL:5 UG/M3 (AS CD)

ACGIH TLV:.05 MG/M3

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name: NICKEL HYDROXIDE

CAS:12054-48-7

RTECS #:QR7040000

OSHA PEL:1 MG/M3 (AS NI) ACGIH TLV:1 MG/M3 (AS NI)

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE

CAS:1310-58-3

RTECS #:TT2100000

OSHA PEL:2 MG/M3 (CEILING) ACGIH TLV:2 MG/M3 (CEILING)

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

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

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

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

EXPOSURE TO HAZARDOUS COMPONENTS EXISTS. IF INCINERATED, INHALATION

OF FUMES M

- AY CAUSE RESPIRATORY SYSTEMS IRRITATION, FUMES WILL ALSO IRRITATE EYE TISSUES (ACUTE); CHRONIC EXPOSURE MAY CAUSE KIDNEY DYSFUNCTION AND LUNG INJURY.
- Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED AS POTENTIAL CARCINOGENS BY NTP, IARC, AND OSHA. CARCINOGENICITY: NOT ESTABLISHED FOR BATTERIES BY NTP, IARC MONOGRAPHS, OSHA REGULATION.
- Effects of Overexposure:IF INCINERATED, CHEST PAIN, COUGHING, SWEATING, CHILLS, SHORNESS OF BREATH AND WEAKNESS ALONG WITH POSSIBL

E EYE

IRRITATION.

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

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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.

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ash Point: NON-FLAMMABLE

Lower Limits:NA Upper Limits:NA

- 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 FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE.
- Unusual Fire/Explosion Hazard:CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE DEATH.

	Accid
ental 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 Precautions:DO NOT INVERT. AVOID BREAKING CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY.

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

espiratory Protection: WHEN HANDLING THE LIQUID IN THE BATERY (POTASSIUM HYDROXIDE SOLUTION); WEAR A DUST OR MIST MASK. Ventilation: USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY. Protective Gloves:WHEN HANDLING POTASSIUM HYDROXIDE LIQUID WEAR RUBBER **GLOVES TO MINIMIZE CONTACT** Eye Protection: WHEN HANDLING POTASSIUM HYDROXIDE LIQUID, WEAR EYE GOGGLES AND FACE SHIELD. Other Protective Equipment: WHEN HANDLING POTASSIUM HYDROXIDE LIQUID, **WEAR PROTEC** TIVE CLOTHING TO MINIMIZE SKIN CONTACT. Supplemental Safety and Health VENDER'S PART NUMBER: 31004-04C, NICKEL CADMIUM BATTERY. ========= Physical/Chemical Properties =========== HCC:B1 Boiling Pt:=407.C, 764.6F B.P. Text:CADMIUM Melt/Freeze Pt:=160.5C, 320.9F M.P/F.P Text:CADMIUM Solubility in Water:POTASSIUM HYDROXIDE: 52% Appearance and Odor:BATTERY: 1.39 INCHES WIDE X 3.135 INCHES LONG X 9.40 INCHES HIGH. ======== Stability and Reactivity Data ======== Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID. Hazardous Decomposition Products: NONE Conditions to Avoid Polymerization: WILL NOT OCCUR. ========== Ecological Information ===================== Ecological: EPA REGISTRATION NUMBER: TXD 054385018.

EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISP

OSAL FACILITY (TSDF). DISPOSAL SHALL BE BY APPROVED METHODS.

======== MSDS Transport Information ==========

Transport Information:PROPER SHIPPING NAME INCLUDED WITH COPY OF LABEL, SENT WITH MANUFACTURER'S MSDS: BATTERIES, WET, FILLED WITH ALKALI, UN 2795, PG. I I I. LABELS: CORROSIVE LABEL AND DOUBLE ARROWS INDICATING UP END O F PACKAGE.

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