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MARATHON POWER TECHNOLOGIES -- BATTERY, STORAGE, 28087-4 P -- 6140-01-071-8560

Product ID:BATTERY,STORAGE,28087-4 P

MSDS Date:12/09/1992

FSC:6140

NIIN:01-071-8560

MSDS Number: BQXVW === 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:817-776-0650/FAX -65

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

Preparer's Name:B. MULLEE

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: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: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: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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 225 CADMIUM & CD(OH)2

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

ROKEN OR LEAKING:

ACUTE- REPEATED SKIN CONTACT MAY CAUSE SENSITIVITY AND ALLERIGC SKIN RASHES. INHALATION OF DUSTS OR FUMES MAY BE HARMFUL OR FATAL AND CAN DAMAGE LUNGS. DESTRUCTIVE TO EYES, SKIN, MOUTH, THROAT AND STOMACH TISSUES. CHRONIC- MAY CAUSE IRREVERSIBLE LUNG INJURY, KIDNEY DISEASE.

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 BATTERY

IS BROKEN OR LEAKING: INGESTION MAY

CAUSE VOMITING, DIARRHEA AND ABDOMINAL CRAMPS. OVEREXPOSURE TO VAPORS, FUMES OR DUST MAY CAUSE IRRITATION OF MUCOUS MEMBRANES, DRYNESS OF MOUTH AND THROA T, HEADACHE, NAUSEA AND DIZZINESS. MAY CAUSE SEVERE EYES AND SKIN IRRITATION AND BURNS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE PRODUCT'S D

USTS, VAPORS OR FUMES.

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMI TING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER. CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

====		Fire Fighting Mea
sures	=======================================	

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CO2, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED 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.

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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:WEAK ACID FOR POTASSIUM, NICKEL & CADMIUM HYDROXIDE
============= Handling and Storage ==============
Handling and Storage Precautions:STORAGE- DO NOT INVERT. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INT EGRITY
OF THE CELL OR BATTERY. Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE NIOSH APPROVED MIST OR DUST 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 LEAKE RS
Eye Protection:SAFETY GOGGLES/FACE SHIELD Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING. Supplemental Safety and Health NON-SPILLABLE BATTERY, WET, PER MSDS.
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HCC:N1 Boiling Pt:B.P. Text:765F (CD) Melt/Freeze Pt:M.P/F.P Text:321F (CD) Decomp Temp:Dec omp Text:230,NI(OH)2 Spec Gravity:8.90 NI Solubility in Water:52% W/V KOH 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:EXCESSIVE HEAT, FIRE Hazardous Decomposition Products:CADMIUM OXIDE FUMES/VAPORS/DUST
======= Disposal Considerations ===

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSDF). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW S AND REGULATIONS.

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