

MARATHON POWER TECHNOLOGIES -- 6140 NICKEL CADMIUM BATTERY -- 6140-00-959-4180  
===== Product Identification =====

Product ID:6140 NICKEL CADMIUM BATTERY  
MSDS Date:11/01/1995  
FSC:6140  
NIIN:00-959-4180  
MSDS Number: BZFYC  
=== Responsible Party ===  
Company Name:MARATHON POWER TECHNOLOGIES  
Address:8301 IMPERIAL DR  
Box:8233  
City:WACO  
State:TX  
ZIP:76714-8233  
Country:US  
Info Phone Num:817-776-0650  
Emergency Phone Num:817-776-0650  
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 =====

Ingredient Name:CADMIUM (SUSPECTED HUMAN CARCINOGEN BY IARC, SUSPECTED  
CARCINOGEN BY NTP, IARC - GROUP 1) \*96-2\*  
CAS:7440-43-9  
RTECS #:EU9800000  
Other REC Limits:A2 CARCINOGEN  
OSHA PEL:0.05 MG/CUM (CD)  
ACGIH T

LV:2 MG/CUM  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE (SUSPECTED HUMAN CARCINOGEN BY IARC,  
SUSPECTED ANIMAL CARCINOGEN BY IARC - GROUP 1) \*96-2\*  
CAS:21041-95-2  
OSHA PEL:0.05 MG/CUM (CD)  
ACGIH TLV:0.06 MG/CUM

Ingred Name:NICKEL (SUSPECTED ANIMAL/HUMAN CARCINOGEN BY IARC GROUP 2B,  
SUSPECTED CARCINOGEN BY NTP) \*96-2\*  
CAS:7440-02-0  
RTECS #:QR5950000  
Other REC Limits:1 MG/CUM  
OSHA PEL:1 MG/CUM  
ACGIH TLV:1 MG/CUM IC

Ingred Name:NICKEL HYDROXIDE (SUSPECTED CARCI  
NOGEN BY NTP, IARC GROUP  
2B) \*96-2\*  
CAS:12054-48-7  
RTECS #:OR7040000  
OSHA PEL:1 PPM  
ACGIH TLV:1 PPM  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE  
CAS:1310-58-3  
RTECS #:TT2100000  
Other REC Limits:2 MG/CUM (CEILING)  
OSHA PEL:2 MG/CUM  
ACGIH TLV:2 MG/CUM (CEILING)  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:LITHIUM HYDROXIDE  
CAS:1310-65-2  
RTECS #:OJ6307070  
OSHA PEL:0.025 MG/CUM  
ACGIH TLV:0.025 MG/CUM

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

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Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: FUMES MAY CAUSE  
RESPIRATORY SYSTEM IRRITATION. EYES: IRRITATE TISSUES. EXPOSURE MAY  
CAUSE KIDNEY DYSFUNCTION & LUNG INJURY. CADMIUM & NICKEL FUMES ARE  
TOXIC & CAN CAUSE DEATH.

Explanation of Carcinogenicity:SEE INGREDIENTS.

Effects of Overexposure:IRRITATION, CHEST PAIN, COUGHING, SWEATING,  
CHILLS, SHORTNESS OF BREATH, WEAKNESS.

Medical Conditions Aggravated by Exposure:RESPIRATORY SYSTEM DISORDERS,  
PROSTATE DISORDERS, LIVER & KIDNEY DISORDERS, VISION PROBLEMS.

===== First Aid Measures =====

First Aid:EYES: FLUSH WITH WATER FOR 15 MINS. INHALATION: REMOVE TO FRESH  
AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

===== Fire Fighting Measures =====

Flash Point:NONE

Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING  
FIRE.

Fire Fighting Procedures:WEAR PROPER PROTECTIVE EQUIPMENT & SCBA WITH FULL  
FACE PIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CONTACT WITH STRONG OXIDIZERS MAY CAUSE  
FIRE/EXPLOSION.

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

Spill Release Procedures:BATTERY & CELL CASES WILL NORMALLY CONTAIN  
MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID  
POSTASSIUM HYDROXIDE.

===== Handling and Storage =====

Handling and Storage Precautions:FOR TRANSPORTATION PURPOSES THESE  
SEALED NICKEL CADMIUM BATTERIES ARE NON-HAZARDOUS & NOT SUBJECT TO  
ANY OF THE PROVISIONS REGULATED.

Other Precautions:DON'T INVERT. AVOID BREATHING CRUSHING/OTHERWISE  
DESTROYING THE PHYSICAL INTEGRITY OF THE CELL/BATTERY.

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

Respiratory Protection:WEAR A DUST/MIST MASK WHEN HANDLING THE LIQUID  
IN THE BATTERY, POSTASSIUM HYDR

OXIDE SOLUTION.

Ventilation:LOCAL EXHAUST

Protective Gloves:RUBBER

Eye Protection:GOGGLES/FACE SHIELD

Other Protective Equipment:PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT.

Supplemental Safety and Health

BOILING POINT: 765F CADMIUM. MELTING POINT: 320.9F CADMIUM. SPECIFIC GRAVITY IS FOR POTASSIUM HYDROXIDE.

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

HCC:N1

Boiling Pt:B.P. Text:(SEE SUPP)

Melt/Freeze Pt:M.P/F.P Text:(SEE SUPP)

Spec Gravity:2.044

Solubility in

Water:INSOLUBLE (CADMIUM)

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, NITRITE, NITRIC ACID.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:CELLS & BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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