

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
Emergen
cy 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 =====

Ingred Name:CADMIUM (SUSPECTED HUMAN CARCINOGEN BY IARC, SUPSECTED
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 TL

V: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 CARCIN
OGEN 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 =====

=====

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 BR
EATH, WEAKNESS.
Medical Cond Aggravated by Exposure:RESPIRATORY SYSTEM DISORDERS,
PROSTATE DISORDERS, LIVER & KIDNEY DISORDERS, VISION PROBLEMS.

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

First Aid:EYES: FLUSH W/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 W/FULL
FACE PIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CONTACT W/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 INTERGRITY OF THE CELL/BATTERY.

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

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

XIDE 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.

Disclaimer (provided with t

his information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.