

MARATHON POWER TECHNOLOGIES -- NICKEL CADMIUM BATTERY, P/N MA-2-1
6140-00-752-2023

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===== Product Identification =====

Product ID:NICKEL CADMIUM BATTERY, P/N MA-2-1
MSDS Date:05/05/1995
FSC:6140
NIIN:00-752-2023
MSDS Number: BYBZD
=== 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:81
7-776-0650
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

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===== Composition/Information on Ingredients =====

Ingred Name:CADMIUM (SARA III)
CAS:7440-43-9
RTECS #:EU9800000
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1027
ACGIH TLV:0.01 MG/M3 DUST;9394
EPA Rpt Qty:10 LBS
D

OT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE.
CAS:21041-95-2
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.2 MG CD/M3
ACGIH TLV:0.05 MG CD/M3 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE SPECIFIED
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 SPECIFIED
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:POTASSIU
M HYDROXIDE (SARA III)
CAS:1310-58-3
RTECS #:TT2100000
Other REC Limits:NONE SPECIFIED
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:PEL: 5 UG/M3 (CADMIUM)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE, NO
EXPOSURE YO HAZARDOUS COMPONENTS

EXISTS. IF INCINERATED, INHALATION OF FUMES MAY CAUSE RESPIRATORY SYSTEM IRRITATION, FUMES WILL ALSO IRRITATE EYE TISSUES (ACUTE); CHRONIC EXPOSURE MAY CAUSE KIDNEY DYSFUNCTION AND LUNG INJURY.

Explanation of Carcinogenicity:NOT ESTABLISHED FOR BATTERIES. NICKEL AND CADMIUM ARE LISTED AS POTENTIAL CARCINOGENS BY NTP, IARC AND OSHA.

Effects of Overexposure:IF INCINERATED, CHEST PAIN, COUGHING, SWELLING, CHILLS, SHORTNESS OF BREATH AND WEAKNESS ALONG WITH POSSIBLE EYE IRRITATION.

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

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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.

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Fire Fighting Measures
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Flash Point:
NON-FLAMMABLE

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.

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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.

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Handling 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:HAZARD CLASS 8.

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Exposure Co

ntrols/Personal Protection =====

Respiratory Protection:WEAR A DUST OR MIST MASK.

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

Protective Gloves:RUBBER GLOVES FOR HANDLING LEAKERS.

Eye Protection:EYE GOGGLES AND FACE SHIELD FOR LEAKERS.

Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Su

pplemental Safety and Health

SHIPPING NAME: BATTERY, WET, FILLED WITH ALKALI, UN2795.

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

Boiling Pt:B.P. Text:785F,418C

Melt/Freeze Pt:M.P/F.P Text:321F,161C

Spec Gravity:8.642 (CD)

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER COLOR. NO ODOR. (CADMIUM)

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID.

Hazard

ous Decomposition Products:NONE

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY. RECOMMEND MARATHON POWER TECHNOLOGIES. DISPOSAL SHALL BE BY APPROVED METHODS.

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