

MARATHON POWER TECHNOLOGIES -- BATTERY,STORAGE P/N 29717 -- 6140-01-046-1116

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Product Identification
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Product ID:BATTERY,STORAGE P/N 29717

MSDS Date:12/09/1992

FSC:6140

NIIN:01-046-1116

MSDS Number: BSCYL

=== 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

Emergen

cy 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

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Composition/Information on Ingredients
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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 Rp

t Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:CADMIUM (SARA III)
CAS:7440-43-9
RTECS #:EU9800000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3FUME;0.2DUST
ACGIH TLV:0.05 MG/M3 DUST;9293
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:0.1 MG/M3 (CD FUME)
ACGIH TLV:0.05 MG/M3 CD 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 M
G/M3; 9293

Ingred Name:NICKEL HYDROXIDE (SARA III)
CAS:12054-48-7
RTECS #:QR7040000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG NI/M3
ACGIH TLV:0.1 MG NI/M3; 9293
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 225 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EYES/SKIN: IRRITATION, CORR

OSIVE. MAY

CAUSE SKIN SENSITIVITY AND ALLERGIC RASHES. INHALATION: HARMFUL OR FATAL. CORROSIVE TO MUCOUS MEMBRANES. MAY CAUSE HEADACHE, NAUSEA, DIZZINESS, LUNG INJURY, KIDNEY DISEASE. INGESTION: CORROSIVE TO MOUTH, THROAT, STOMACH TISSUES. MAY CAUSE NAUSEA, VOMITING, DIARRHEA, ABDOMINAL CRAMPS.

Explanation of Carcinogenicity: CONTAINS NICKEL WHICH IS LISTED BY NTP AND IARC AND CADMIUM LISTED BY NTP AND IARC AND REGULATED BY OSHA AS CARCINOGEN.

Effects of Overexposure: EYES/SKIN:

IRRITATION, BURNS, SKIN RASH, ALLERGIC SKIN REACTION. INHALATION: UPPER RESPIRATORY SYSTEM IRRITATION, HEADACHE, NAUSEA, DIZZINESS, LUNG INJURY, KIDNEY DISEASE, DEATH. INGESTION: MOUTH, THROAT, AND STOMACH TISSUE IRRITATION AND CORROSION. NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL CRAMPS.

Medical Condition Aggravated by Exposure: PERSON WITH PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, RESPIRATORY TRACT, KIDNEYS MAY BE AT INCREASED RISK FROM EXPOSURE TO THE INGREDIENTS IN THIS BATTERY..

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

First Aid: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AREA WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: MOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. GET MEDICAL ATTENTION. INGESTION: IF CONSCIOUS GIVE LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point: NONE

Extinguishing Media: NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE

DEATH.

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

Spill Release Procedures: VENTILATE AREA. ABSORB IN INDUSTRIAL ABSORBENT AND PLACE IN APPROPRIATE COVERED CONTAINER FOR DISPOSAL.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED AREA. DO NOT INVERT. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF CELL OR BATTERY.
Other Precautions: AVOID EYE AND SKIN CONTACT. DO NOT BREATHE VAPORS.

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

Respiratory Protection: NONE NORMALLY REQUIRED. WEAR NIOSH/MSHA-APPROVED RESPIRATOR FOR CAUSTIC GASES OR SCBA AS APPROPRIATE FOR EXPOSURE PRESENT WHEN HANDLING THE CORROSIVE BATTERY LIQUID.
Ventilation: NO SPECIAL REQUIREMENT. HOWEVER, USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY.
Protective Goggles: RUBBER GLOVES WHEN HANDLING ELECTROLYTE.
Eye Protection: GOGGLES/FACESHIELD WHEN HANDLING LIQUID.
Other Protective Equipment: PROTECTIVE CLOTHING WHEN HANDLING THE LIQUID IN THE BATTERY. PROVIDE EYE WASH STATION AND SAFETY SHOWER.
Work Hygienic Practices: WASH AFTER HANDLING ELECTROLYTE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health

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

HCC: B1
Solubility in Water: 52% (KOH)
Appearance and Odor: CAUSTIC ELECTROLYTE IN BATTERY CASE.

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

Stability Indicator/Materials to Avoid: YES
STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID.
Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products: METAL OXIDE FUMES MAY BE EVOLVED AT TEMP. ABOVE MELTING POINT. CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE DEATH.
Conditions to Avoid Polymerization:

WILL NOT OCCUR.

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

Waste Disposal Methods: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY. RECOMMEND INMETCO (412-758-5515).

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