

MARATHON POWER TECHNOLOGIES -- BATTERY,STORAGE -- 6140-00-283-7855

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Product Identification
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Product ID:BATTERY,STORAGE

MSDS Date:11/29/1990

FSC:6140

NIIN:00-283-7855

MSDS Number: BPBLN

=== 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

Emergency Phone Num:817-776

-0650

Preparer's Name:T. MESSING

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: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

DOT Rpt Qty:10 LBS

Ingred Name:CAD

MIUM HYDROXIDE
Other REC Limits:NONE SPECIFIED

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; 9192

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:POTASSIUM 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; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 225
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE-OVEREXPOSURE TO VAPORS MAY CAUSE
IRRITATION OF MUCOUS MEMBRANES,DRYNESS OF MOUTH
THROAT,HEADACHE,NAUSEA & DIZZINESS.INGESTION:MAY CAUSE
NAUSEA,VOMITING
,DIARRHEA & ABDOMINAL CRAMPS. CHRONIC-CADMIUM
COMPOUNDS IN THE AIR MAY CAUSE IRREVERSIBLE LUNG INJURY & KIDNEY
DISEASE.
Explanation of Carcinogenicity:CONTAINS NICKEL AND CADMIUM.
Effects of Overexposure:SEE HEALTH HAZARDS SECTION.NICKEL & NICKEL
COMPOUNDS:REPEATED CONTACT WITH SKIN MAY CAUSE SENSITIVITY AND
ALLERGIC SKIN RASHES. INHALATION OF AIRBORNE DUST OR MIST OF KOH
MAY CAUSE DAMAGE TO THE UPPER RESPIRATORY TRACT AND EVEN TO THE
LUNG TISSUE WHICH COULD PRODUCE CHEM

ICAL PNEUMONIA.IT IS DESTRUCTIVE
TO EYE,MOUTH...
Medical Cond Aggravated by Exposure:NOT GIVEN.

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

First Aid:EYES/SKIN:FLUSH WITH PLENTY OF WATER.SEE DOCTOR IMMEDIATELY.REMOVE CONTAMINATED CLOTHING.INHALATION:REMOVE TO FRESH AIR.SEE DOCTOR.VENTILATE THE AREA.INGESTION:IF PATIENT IS CONSCIOUS,GIVE LARGE AMOUN T OF WATER.DO NOT INDUCE VOMITING.OBTAINPROMPT MEDICAL ADVICE.

===== Fire Fighting M
easures =====

Flash Point:NONE
Extinguishing Media:USE WATER, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE.
Fire Fighting Procedures:NON FLAMMABLE.IN CASE OF FIRE, USE PROTECTIVE EQUIPMENTS & NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE.
Unusual Fire/Explosion Hazard:CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. CADMIUM FUMES OR VAPORS ARE TOXIC AND CAN CAUSE DEATH.

===== Accid
ental Release Measures =====

Spill Release Procedures:BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE.
Neutralizing Agent:NOT GIVEN.

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

Handling and Storage Precautions:DO NOT INVERT.AVOID BREAKING,CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY.
Other Precautions:AVOID BREATHING VAPORS O R MISTS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY.

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

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH-APPROVED FACE MASK AS APPROPRIATE FOR EXPOSURE OF CONCERN WHEN TLV IS EXCEEDED.
Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CONFINED AREAS.
Protective Gloves:RUBBER
Eye Protection:GOGGLES

Other Protective Equipment:RUBBER APRON.EYES WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

USING NSN 6140-01-038-6053, SAME MANUFACTURER FROM HMIS, THIS MSDS WAS GENERATED.

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

HCC:B1

Solubility in Water:INSOLUBLE (KOH 52%)

Appearance and Odor:SILVER COLOR METAL, WHITE SALT - NO ODOR

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

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Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID

Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO MARATHON POWER TECHNOLOGIES. DISPOSAL SHALL BE APPROVED METHODS.

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ormation 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.