

MARATHON BATTERY CO. -- 39411-003 -- 6140-01-086-3440

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

Product ID:39411-003

MSDS Date:07/15/1999

FSC:6140

NIIN:01-086-3440

MSDS Number: BHBVC

=== Responsible Party ===

Company Name:MARATHON BATTERY CO.

Address:8301 IMPERIAL DRIVE

Box:8233

City:WACO

State:TX

ZIP:76714-8233

Country:US

Info Phone Num:817-776-0650

Emergency Phone Num:817-776-0650/800-424-9300(CHEMTREC
)

Preparer's Name:TERRY G. MESSING

Chemtrec Ind/Phone:(800)424-9300

CAGE:DO446

=== Contractor Identification ===

Company Name:MARATHON BATTERY COMPANY

Address:8301 IMPERIAL DRIVE

Box:8233

City:WACO

State:TX

ZIP:76710

Phone:301-321-5200

CAGE:DO446

Company Name:MARATHON POWER TECHNOLOGIES CO

Address:8301 IMPERIAL DR

Box:City:WACO

State:TX

ZIP:76712-6588

Country:US

Phone:254-741-5405

Contract Num:SP0430-99-D0331-0002

CAGE:74025

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

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

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:CADMIUM HYDROXIDE
CAS:21041-95-2
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3 (CD FUME)
ACGIH TLV:
0.05 MG/M3 (CD FUME)

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: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

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

LD50 LC50 Mixture:LD50 ORAL RAT IS 225 MG/KG
Routes of Entry: Inhalation:NO Ski

n:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE NO EXPOSURE TO HAZARDOUS COMPONENTS EXIST. IF INCINERATED ,MAY CAUSE IRRITATION TO RESPIRATORY SYSTEM, FUMES WILL ALSO IRRITATE EYES, ALKALI IS CORROSIVE TO ALL TISSUE S (ACUTE). CHRONIC:MAY CAUSE LUNG INJURY AND KIDNEY DYSFUNCTION.

Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED UNDER NTP AND IARC.

Effects of Overexposure

:EYES:SEVERE IRRITATION, PAIN, BURNS, VISION PROBLEMS. SKIN: IRRITATION, POSSIBLE CHEMICAL BURNS. INHALATION: SEVERE IRRITATION, COUGHING, SWEATING, CHILLS, FEVER, KIDNEY DISORDERS. INGESTION: CORROS IVE TO DIGESTIVE SYSTEM.

Medical Cond Aggravated by Exposure:IF INCNERATED, INDIVIDUALS WITH PRE-EXISTING RESPIRATORY DISORDERS,M PROSTATE, LIVER, KIDNEY AND VISION PROBLEMS MAY BE AT INCREASED RISK.

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

First

Aid:IF CONTACT WITH POTASSIUM HYDROXIDE OCCURS, FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN. SEE DOCTOR. IF INHALATED, REMOVE TO FRESH AIR AND CONTACT PHYSICIAN IMMEDIATELY.

===== 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. EV

ACUATE AREA. COOL

FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS SUCH AS CADMIUM AND NICKEL FUMES.

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

Spill Release Procedures:VENTILATE AREA. EVACUATE PERSONNEL. WEAR APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB IN INERT INDUSTRIAL ABSORBENT AND PLACE IN DOT-APPROVED CONTAINERS FOR DISPOSAL.

WASH AREA WITH LARGE AMOUNTS OF WATER.
Neutralizing Agent:5% ACETIC ACID SOLUTION.

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

Handling and Storage Precautions:DO NOT INVERT BATTERY. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY.

Other Precautions:DO NOT BREAK OPEN OR INCINERATE BATTERIES. DO NOT BREATHE MIST. AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:NONE UNDER NORMAL USE. WEAR NIOSH-APPROVED MIST MASK WHEN HANDLING LIQUID OR WHEN THERE IS A DANGER FOR INHALING FUMES..

Ventilation:LOCAL EXHAUST WHEN HANDLING THE LIQUID IN THE BATTERY.

Protective Gloves:RUBBER GLOVES WHEN HANDLING ELECTROLYTE OR BROKEN BATTERIES..

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD WHEN HANDLING BROKEN BATTERIES.

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE SMOKING OR EATING. LAUNDRY CONTAMINATED CLOTHING. DISCARD CONTAMINATED SHOES.

Supplemental Safety and Health

UNDER NORMAL USE THE ITEM IS NON-HAZARDOUS.

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

HCC:Z7

Solubility in Water:COMPLETE

Appearance and Odor:SOLID BATTERIES, 12 VOLT.

Percent Volatiles by Volume:UNKNOWN

===== 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: NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods: SEND TO RECLAIMING CENTER FOR RECYCLING OR REUSE, IF POSSIBLE. OR SEND TO LICENSED HAZARDOUS TREATMENT OR DISPOSAL SITE FOR DISPOSITION UNDER A
APPLICABLE FEDERAL, STATE AND LOCAL
REGULATIONS. DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL
REGULATIONS.

===== MSDS Transport Information =====

Transport Information: PER MSDS, FOR TRANSPORTATION PURPOSE THESE
BATTERIES ARE NON-HAZARDOUS AND NOT SUBJECT TO ANY OF THE
PROVISIONS OF 49 CFR PARTS 170-189.

Disclaimer (provided with this 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.