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MARATHON POWER TECHNOLOGIES -- BATTERY STORAGE PN: MA7 -- 6140-00-768-1729

Product ID:BATTERY STORAGE PN: MA7

MSDS Date:03/26/1990

FSC:6140

NIIN:00-768-1729

MSDS Number: BRTBC === 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 OR 800-424-9300(CHEMT)

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

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

Ingred Name: CADMIUM (SARA III) BP-765F, SG-8.642, MP-320.9F,

INSOLUBLE NO ODOR

CAS:7440-43-9

RTECS #:EU9800000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SE

E 1910.1027

ACGIH TLV:0.01 MG/M3 DUST;9394

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: CADMIUM HYDROXIDE BP-N/A, SG-4.79, DECOMPOSES 300C,

INSOLUBLE CAS:21041-95-2

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG/M3 (CD FUME) ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name: NICKEL (SARA III) BP-2730 F, SG 8.90, MP 1455F, INSOLUBLE

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9293

Ingred Name: NICKEL HYDROXIDE (SARA III) SG-4.15, D

ECOMPOSES 230F,

INSOLUBLE

CAS:12054-48-7

RTECS #:QR7040000

Other REC Limits: NONE RECOMMENDED

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) BP-1322F, SG-2.044,

MP-360F, SOLUBLE 52% W/W

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 Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:LOW LEVEL EXPOSURE TO CADMIUM COMPOUNDS MAY CAUSE IRRIVERSIBLE LUNG INJURY, KIDNEY DISEASE AND OTHER ADVERSE EFFECTS. EXPOSURE TO POTASSIUM HYDROXIDE (KOH) MAY DAMAGE UPPER RESPIRATORY TRACT AND LUN G TISSUE WHICH COULD PRODUCE CHEMICAL PNEUMONIA.

Explanation of Carcinogenicity:NICKEL LISTED BY IARC & NTP. CADMIUM LISTED BY NTP.

Effect

s of Overexposure:IRRITATION OF MUCOUS MEMBRANES, DRYNESS OF MOUTH/THROAT, HEADACHE, NAUSEA AND DIZZINESS. ALLERGIC SKIN RASHES/SENSITIVITY.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:FLUSH EYES FOR 15 MIN WITH WATER AND WASH SKIN WITH WATER. IF INGESTED AND PERSON CONSCIOUS GIVE LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point: NON FLAMMABLE Lower Limits: NOT APPLICAE

Upper Limits:NOT APPLICAE

Extinguishing Media: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE

Fire Fighting Procedures:FIRE FIGHTER 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 OXIDIZING AGENTS, NITRATES, NITRIC ACID

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

Spill Release Procedures: USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

============ 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:USE ADAQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQ

UID IN THE BATTERY I.E. POTASSIUM HYDROXIDE SOLUTION, WEAR A RESPIRAATOR, EYE GOGGLES AND FACE SHIELD, RUBBER GLOVES, PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT.

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

Respiratory Protection: CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE IF RESPIRATORY PROTECTION IS REQUIRED

Ventilation: CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE IF LOCAL EXHAUST VENTILATION IS NEEDED

Protective Glov

es:RUBBER GLOVES

Eye Protection: CHEMICAL SAFETY GLASSES/GOGGLES

Other Protective Equipment: PROTECTIVE CLOTHING

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

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:765F,407C Melt/Freeze Pt:M.P/F.P Text:UNK

Decomp Temp:Decomp Text:230F,110C

Vapor Pres:UNK Vapor Density:UNK Spec Grav

ity:UNK

pH:UNK

Evaporation Rate & Dr. Reference: UNK

Solubility in Water: KAOH 52%

Appearance and Odor:NICAD BATT CONTAINS:CD & NI-SILVER METAL,CDOH & KOH-WHITE SALT,NIOH GRN-BLK SAL

Percent Volatiles by Volume:UNK

Corrosion Rate:UNK

======== 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

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. COORDINATE WITH SUPPORTING INSTALLATION AND/OR MACOM ENVIRONMENTAL OFFICE PRIOR TO DISPOSAL

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