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MARATHON POWER TECHNOLOGIES -- BATTERY STORAGE BB-433A/A -- 6140-01-046-1116

Product ID:BATTERY STORAGE BB-433A/A

MSDS Date:03/26/1990

FSC:6140

NIIN:01-046-1116

MSDS Number: BRTBY === 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

Emera

ency 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 PE

L: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 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-4.1

5, DECOMPOSES 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.

Εf

fects 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

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====== 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

LIQUID 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

Gloves: 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

Gravity: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 ======= 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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