

MARATHON POWER TECHNOLOGIES, B -- NICKEL CADMIUM BATTERY,29147-4

=====
MSDS Safety Information
=====

FSC: 6140
NIIN: 01-089-8134
MSDS Date: 11/18/1996
MSDS Num: CDJSF
Product ID: NICKEL CADMIUM BATTERY,29147-4
MFN: 02
Responsible Party
Cage: 74025
Name: MARATHON POWER TECHNOLOGIES, BATTERY PRODUCTS
Address: 8301 IMPERIAL DRIVE
Box: 8233
City: WACO TX 75714-8233
Info Phone Number: 817-776-0650
Emergency Phone Number: 817-776-0650/800-424-9300(CHEMTREC)
Preparer's Name: UNKNOWN
Proprietary Ind: Y
Review Ind: Y
Published: Y

=====
Contractor Summary
=====

Cage: 74025
Name: MARATHON POWER TECHNOLOGIES CO
Address: 8301 IMPERIAL DR
City: WACO TX 76712-6588
Phone: 254-741-5405

=====
Item Description Information
=====

Item Manager: S9G
Item Name: BATTERY,STORAGE
Unit of Issue: EA
UI Container Qty: 1

=====
Ingredients
=====

Name: *** PROPRIETARY ***

=====
Health Hazards Data
=====

L

D50 LC50 Mixture: LD50 (ORAL, RAT) IS NOT RELEVANT.

Route Of Entry Inds - Inhalation: NO

Skin: NO

Ingestion: YES

Carcinogenicity Inds - NTP: YES

IARC: YES

OSHA: YES

Effects of Exposure: TARGET ORGANS:EYES, SKIN, RESPIRATORY, GI TRACTS. ACUTE-CONTENTS OF AN OPEN BATTERY (KOH) CAN CAUSE SEVERE IRRITATION/BURNS TO TISSUE CONTACTED. CAN CAUSE BLINDNESS. NICKEL MAY CAUSE SKIN SENSITIZATION. INGESTION CAN BE HARMFUL/FATAL. CHRONIC- CADMIUM MAY CAUSE LUNG OR KIDNEY DAMAGE. NICKEL MAY CAUSE LUNG DAMAGE.

Explanation Of Carcinogenicity: CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. ALSO CONTAINS NICKEL

Signs And Symptoms Of Overexposure: NONE UNDER NORMAL CONDITIONS OF USE. IF LEAKING OR INCINERATED: SEVERE IRRITATION, BURNS, CHEST PAIN, COUGHING, SWEATING, CHILLS, SHORTNESS OF BREATH, WEAKNESS, BLINDNESS, NICKEL ITCH

Medical Cond Aggravated By Exposure: IF INCINERATED, PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS

OR IMPAIRED LIVER, KIDNEY, PROSTATE OR

RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid: GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IF CONTACT WITH POTASSIUM HYDROXIDE ELECTROLYTE, IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. MILD ACID (VINEGAR) MAY BE USED TO NEUTRALIZE KOH ON SKIN. INHALED:REMOVETO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED.

ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR

MI

LK.

=====
Handling and Disposal

=====
Spill Release Procedures: BATTERY AND CELL CASES WILL NORMALLY CONTAIN

MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE. WEAR RUBBER GLOVES. NEUTRALIZE WITH CITRIC ACID.

Neutralizing Agent: CITRIC ACID

Waste Disposal Methods: CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISP

OSAL FACILITY (TSDF). DISPOSAL MUST BE

MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW S AND REGULATIONS.

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

Other Precautions: DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES. KEEP OUT OF REACH OF SMALL CHILDREN. NO SMOKING DURING BATTE

RY CHARGING. ALWAYS USE EXTREME CARE.
AVOID OPEN FLAME.

=====
Fire and Explosion Hazard Information
=====

Flash Point Text: NONE

Extinguishing Media: WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard: CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE DEATH.

=====
Control Measures
=====

Respiratory Protection: IF INCINERATED, USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR RESPIRATOR WITH FULL FACEPIECE, OPERATED IN POSITIVE PRESSURE MODE.

Ventilation: USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN FUMES PRESENT.

Protective Gloves: NEOPRENE, NITRILE FOR LEAKERS

Eye Protection: CHEMICAL SPLASH GOGGLES FOR LEAKERS

Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

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

HCC: B1

NRC

/State LIC No: NOT RELEVANT

Spec Gravity: NOT RELEVANT

Viscosity: NOT RELEVANT

Evaporation Rate & Reference: NOT RELEVANT

Solubility in Water: NOT RELEVANT

Appearance and Odor: BATTERY - NO ODOR

Corrosion Rate: UNKNOWN

=====
Reactivity Data
=====

Stability Indicator: YES

Stability Condition To Avoid: EXCESSIVE HEAT, FIRE

Materials To Avoid: STRONG OXIDIZING AGENTS, NITRATES, NITRIC ACID

Hazar

dous Decomposition Products: TOXIC FUMES OF CADMIUM OXIDE, NICKEL OXIDE
MAY BE FORMED.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

=====
Toxicological Information
=====

=====
Ecological Information
=====

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

=====
Regulatory Information
=====

=====
Other Information
=====

=====
Transportation Information
=====

R

Responsible Party Code: 74025

Trans ID NO: 106593

Product ID: NICKEL CADMIUM BATTERY,29147-4

MSDS Prepared Date: 11/18/1996

Review Date: 03/24/1997

MFN: 2

Radioactivity: NOT RELEVANT

Net Unit Weight: 3.19LBS KOH

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: EA

Container QTY: 1

Additional Data: PROPER SHIPPING NAME, UN ID NUMBER PER MSDS. THERE IS 3/4 QT
OF POTASSIUM HYDROXIDE IN EACH BATTERY (MFR).

=====
Detail DOT Information
=====

=====
DOT PSN Code: BQP
DOT Proper Shipping Name: BATTERIES, WET, FILLED WITH ALKALI
DOT PSN Modifier: ELECTRIC STORAGE
Hazard Class: 8
UN ID Num: UN2795
DOT Packaging Group: III
Label: CORROSIVE
Non Bulk Pack: 159
Bulk Pack: 159
Max Qty Pass: 30 KG GRO
Max Qty Cargo: NO LIMIT
Vessel Stow Req: A
=====

=====
Detail IMO Information
=====

IMO PSN Code: BWF
IMO Prope
r Shipping Name: BATTERIES, WET, FILLED WITH ALKALI
IMO PSN Modifier: ,ELECTRIC STORAGE
IMDG Page Number: 8120
UN Number: 2795
UN Hazard Class: 8
IMO Packaging Group: III
Subsidiary Risk Label: -
EMS Number: 8-10
MED First Aid Guide NUM: 705
=====

=====
Detail IATA Information
=====

IATA PSN Code: CZR
IATA UN ID Num: 2795
IATA Proper Shipping Name: BATTERIES, WET, FILLED WITH ALKALI,
IATA PSN Modifier: E
LECTRIC STORAGE +
IATA UN Class: 8
IATA Label: CORROSIVE
UN Packing Group: III
Packing Note Passenger: 800
Max Quant Pass: NO LIMIT
Max Quant Cargo: NO LIMIT
Packaging Note Cargo: 800
Exceptions: A51
=====

=====
Detail AFI Information
=====

AFI PSN Code: CZR
AFI Proper Shipping Name: BATTERIES, WET, FILLED WITH ALKALI
AFI PSN Modifier: ,ELECTRIC STORAGE
AFI Hazard Class: 8
AFI UN ID NUM: UN2795
AFI Pac

king Group: III
Special Provisions: P5
Back Pack Reference: A12.5

=====

HAZCOM Label

=====

Product ID: NICKEL CADMIUM BATTERY,29147-4
Cage: 74025
Company Name: MARATHON POWER TECHNOLOGIES CO
Street: 8301 IMPERIAL DR
City: WACO TX
Zipcode: 76712-6588
Health Emergency Phone: 817-776-0650/800-424-9300(CHEMTREC)
Label Required IND: Y
Date Of Label Review: 03/24/1997
Status Code: C
MFG Label NO: UNKNO
WN
Label Date: 03/24/1997
Origination Code: F
Signal Word: CAUTION
Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: None
Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS:EYES, SKIN, RESPIRATORY, GI TRACTS.
ACUTE- CONTENTS OF AN OPEN BATTERY CAN CAUSE SEVERE BURNS. NICKEL MAY CAUSE
SKIN SENSITIZATION. INGESTION CAN BE HARMFUL/FATAL. CHRONIC- CADMIUM MAY C
AUSE LUNG/KIDNEY DAMAGE. STORE IN COOL/DRY PLACE. USE ABSORBENT TO COLLECT
ELECTROLYTE. NEUTRALIZE WITH CITRIC AC
ID. FIRST AID- GET MEDICAL ATTENTION.
EYE/SKIN:IF CONTACT WITH ELECTROLYTE, IMMEDIATELY FLUSH WITH WATER FOR 15
MINUTES. HOLD EYELIDS OPEN. MILD ACID (VINEGAR) MAY BEUSED TO NEUTRALIZE KOH
ON SKIN. INHALED:REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO
NOT INDUCE VOMITING. I F CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK.

=====

Disclaimer (provided with this information by the compiling agencies): This
information is form

ulated for use by elements of the Department of Defense.

The United States of America in no manner whatsoever expressly or implied
warrants, states, or intends said information to have any application, use or
viability by or to any person or persons outside the Department of Defense
nor any person or persons contracting with any instrumentality of the United
States of America and disclaims all liability for such use. Any person
utilizing this instruction who is not a military or civi

lian employee of the

United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.