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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 IMPER IAL 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

LD50 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 SENSITIZATI ON. INGESTION CAN BE HARMFUL/FATAL. CHRONIC- CADMIUM MAY CAUSE LUNG OR KIDNEY DAMAGE. NICKEL MAY CAUSE L UNG 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 Symptions 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 PROBLEM S 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 Μ

ILK.

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, DIS

POSAL 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 BATT ERY 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 DECO MPOSITION 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 NR C/State LIC No: NOT RELEVANT Spec Gravity: NOT RELEVANT Viscosity: NOT RELEVANT Evaporation Rate & amp; 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 Haza

| rdous Decomposition Products: TOXIC FUMES OF CADMIUM OXIDE, NICKEL OXIDE MAY BE FORMED. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: NOT RELEVANT |
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| Toxicological Information |
| ====================================== |
| ======= MSDS Transport Information ==================================== |
| energy and the second s |
| Other Information |
| Transportation Information |
| Responsible Party Cage: 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 Reg: A _____ Detail IMO Information _____ IMO PSN Code: BWF IMO Prop er 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: ELECTRIC 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 Pa

cking 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: UNKN OWN 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 A CID. 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. _____

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