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LYNTRONICS, INC.(AMERICAN POWE -- PRC139B, CADNICA

_____ FSC: 6140 NIIN: 01-368-8285 MSDS Date: 12/14/1994 MSDS Num: CKTMX Product ID: PRC139B, CADNICA MFN: 01 Article: Y **Responsible Party** Cage: 0BSY9 Name: LYNTRONICS, INC. (AMERICAN POWERCELL BATTERY CO) Address: 7 OLD DOCK RD City: YAPHANK NY 11980 Info Phone Number: 516-205-1061FX:516-205-1072 Emergency Phone Number: 516-205-1061 _____ Item Description Information _____

Item Manager: S9G Item Name: BATTERY,STORAGE Specification Number: NONE Type/Grade/Class: NONE Unit of Issue: EA UI Container Qty: 1 Type of Container: BATTERY

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______ Regulated Component Name: CADMIUM HYDROXIDE CAS: 21041-95-2 Percent Text: 11-26% Regulated Component Name: NICKEL CAS: 7440-02-0 Percent Text: 8-17% Regulated Component Name: NICKEL HYDROXIDE CAS: 12054-48-7 Percent Text: 5-12% Regulated Component Name: POTASSIUM HYDROXIDE CAS: 1310-58-3 Regulated Component Name: CADMIUM CAS: 7440-43-9 Percent Text: 11-26% _____

Health Hazards Data

Carcinogenicity Inds - NTP: YES

IARC: YES

OSHA: YES

Effects of Exposure: INHALATION: DURING NORMAL USE INHALATION IS AN UNLIKELY ROUTE OF EXPOSURE DUE TO CONTAINMENT OF HAZARDOUS MATERIALS WITHIN THE BATTERY CASE. HOWEVER SDHOULD THIS BATTERY BE EXPOSED TO EXTREME HEAT OR PRESSURES CAUSING A BREACH IN THE BATTERY CELL CASE, CADMIUM DUSTS & amp; FUMES MAY BE EMITTED.INHALATION OF CADMIUM DUSTS OR FUMES MAY CAUSE THROAT DRYNESS, RESPIRATORY IRRITATIO

N, HEADACHE, NAUSEA, VOMIT ING, CHEST PAIN,

EXTREME RESTLESSNESS & amp; IRRITABILITY, PNEUMONITIS, & amp; BRONCHOPNEUMONIA, IN THE CASE OF HIGH CONCENTRATION EXPOSURES (E.G., ABOVE 1 TO 5 MG/M3 DURING AN EIGHT HOUR PERIOD) DEATH MAY OCCU R WITHIN SEVERAL DAYS AFTER EXPOSURE.

Explanation Of Carcinogenicity: CADMIUM AND NICKEL HAVE BEEN IDENTIFIED BY THE NATIONAL TOXICOLOGY PROGRAM (NTP) AS REASONABLY ANTICIPATED TO BE CARCINOGENS. U.S. EPA CLASSIFIED CADMIUM AS A "B1" PROBABLE HUMAN CARCI NOGEN.

Signs And Symptions Of Overexposure: INGESTION: IF THE BATTERY BASE IS BREACHED IN THE DIGESTIVE TRACT, THE ELECTROLYTE MAY CAUSE LOCALIZED BURNS. INGESTION OF CADMIUM COMPOUNDS MAY RESULT IN INCREASED SALIVATION, CHOKING, NAUSEA, PERSIS TENT VOMITING, DIARRHEA, ABDOMINAL PAIN, ANEMIA, TENESMUS AND KIDNEY DISFUNCTION. SKIN CONTACT: EXPOSURE TO ELECTROLYTE CONTAINED INSIDE THE BATTERY MAY RESULT IN CHEMICAL BURNS. EXPOSURE TO NICKEL MA Y CAUSE DERMATITIS IN SOME SENSITIVE INDIV

IDUALS. EYE CONTACT: EXPOSURE TO THE

ELECTROLYTE CONTAINED INSIDE THE BATTERY MAY RESULT IN SEVERE IRRITATION & amp; CHEMICAL BURNS.

Medical Cond Aggravated By Exposure: A KNOWLEDGE OF THE AVAILABLE TOXICOLOGY INFORMATION AND OF THE PHYSICAL AND CHEMICAL PROPERTIES OF THE MATERIAL SUGGESTS THAT OVEREXPOSURE IN UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

First Aid: SWALLOWING: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY. SKIN: IF THE INTERNAL CELL MATERIALS OF AN OPENED BATTERY CELL

COMES INTO CONTACT WITH THE SKIN, IMMEDIATELY FLUSH WITH WATER FO R AT LEAST 15 MINUTES. INHALATION: IF POTENTIAL FOR EXPOSURE TO CADMIUM OR NICKEL FUMES OR DUSTS OCCURS, REMOVE IMMEDIATELY TO FRESH AIR AND SEEK MEDICAL ATTENTION. EYES: IF THE CONTENTS FROM AN OPENE D BATTERY COMES INTO CONTACT WITH THE EYES, IMMEDIATELY FLUSH EYES WITH WATER CONTINUOUSLY FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

Handl

ing and Disposal

Spill Release Procedures: SPILL AND LEAKS ARE UNLIKELY BECAUSE CELLS ARE CONTAINED IN AN HERMETICALLY-SEALED CASE. IF THE BATTERY CASE IS BREACHED, DON PROTECTIVE CLOTHING THAT IS IMPERVIOUS TO CAUSTIC MATERIALS AND ABSORB OR PACK SPILL RESIDUES IN INERT MATERIAL. RESULTANT SPILL RESIDUES MAY BE CHARACTERIZED AS D002(CAUSTIC) AND D006(CADMIUM) PURSUANT TO THE FEDERAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA).

Waste Disposal Methods: DISPOSE OF AS HAZARDOUS WASTE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions: STORE IN A COOL PLACE, BUT PREVENT CONDENSATION ON CELL OR BATTERY TERMINALS. ELEVATED TEMPERATURES MAY RESULT IN REDUCED BATTERY LIFE. OPTIMUM STORAGE TEMPERATURES ARE BETWEEN -31F & amp; 95 F.

Other Precautions: CHARGING-THIS BATTERY IS DESIGNED FOR RECHARGING. A LOSS OF VOLTAGE & amp; CAPACITY OF BATTERIES DUE TO SELF-DISCHARGE DURING PR OLONGED

STORAGE IS UNAVOIDABLE. CHARGE BATTERY BEFORE USE. OBSERVE THE SPECIF IED CHARGE RATE SINCE HIGHER RATES CAN CAUSE A RISE IN INTERNAL GAS PRESSURE, WHICH CAN CAUSE CELL R UPTURE/VENTING.

Fire and Explosion Hazard Information

Extinguishing Media: ANY CLASS OF EXTINGUISHING MEDIUM MAY BE USED ON THE BATTERIES OR THEIR PACKING MATERIAL

Fire Fighting Procedures: EXPOSURE T

O TEMPERATURES OF ABOVE 212F CAN CAUSE

EVAPORATION OF THE LIQUID CONTENT OF THE POTASSIUM HYDROXIDE ELECTROLYTE RESULTING IN THE RUPTURE OF THE CELL. POTENTIAL FOR EXPOSURE TO CADMIUM FUMES DURING FIRE; USE SELF-CONTAINED BREATHING APPARATUS.

Control Measures

Respiratory Protection: NOT REQUIRED UNDER NORMAL USE.

Ventilation: NOT REQUIRED UNDER NORMAL USE.

Protective Gloves: NO

T REQUIRED UNDER NORMAL USE.

Eye Protection: NOT REQUIRED UNDER NORMAL USE.

Supplemental Safety and Health: LABELING: IF NORMAL LABEL WARNINGS ARE NOT VISIBLE, IT IS IMPORTANT TO PROVIDE A DEVICE LABEL STATING: CAUTION: DO NOT DISPOSE IN FIRE, MIX WITH OTHER BATTERY TYPES, CHARGE ABOVE SPECIFIC RATE, CONNEC T IMPROPERLY, OR SHORT CIRCUIT, WHICH MAY RESULT IN OVERHEATING, EXPLOSION OR LEAKAGE OF CELL CONTENTS.

Physical/Chemical Prope

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Boiling Point: =763.9C, 1407.F
B.P. Text: CADMIUM Melt/Freeze Pt: =321.1C, 610.F
M.P/F.P Text: CADMIUM
Spec Gravity: 8.65 (CADMIUM)
Appearance and Odor: SILVER-WHITE, BLUE-TINGED, LUSTROUS METAL (CADMIUM).
Reactivity Data
stability Indicator: YES
Stability Condition To Avoid: HEAT, OPEN FLAMES, SPARKS, AND MOSITURE
Materials To Avoid: ACIDS, ALDEHYDES AND CARBAMATE COMPOUNDS.
Hazardous Decomposition Products: OXIDES OF CADMIUM AND NICKEL.
Hazardous Polymerization Indicator: NO
Toxicological Information
Toxicological Information: OTHER EFFECTS OF REPEATED (CHRONIC) EXPOSURE:
REPEATED OVEREXPOSURE TO CADMIUM MAY RESULT IN LUNG CANCER; LUNG, KIDNEY, & amp; LIVER DISFUNCTION; SKELETAL DISEASE (
E.G., OSTEOPOROSIS) & amp;
REPRODUCTIVE TOXICI TY. CHRONIC OVEREXPOSURE TO NICKEL MAY RESULT IN CANCER
DERMAL CONTACT MAY RESULT IN DERMATITIS IN SENSITIVE INDIVIDUALS.
Ecological Information
MSDS Transport Information
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Regulatory Information
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Other Information: HANDLING: ACCIDENTAL SHORT CIRCUIT WILL BRING HIGH TEMPERATURE ELEVATION TO THE BATTERY AS WELL AS SHORTEN THE BATTERY LIFE. BE SURE TO AVOID PROLONGED SHORT CIRCUIT SINCE HEAT CAN BURN ATTENDANT SKIN & amp; EVEN RUPTURE OF THE BATTERY CELL CASE. BATTERIES PA

CKAGED IN BULK

CONTAINERS SHOULD BE SHAKEN. METAL COVERED TABLES OR BELTS USED FOR ASSEMBLY OF BATTERIES INTO DEVICES CAN BE THE SO IF SOLDERING O R WELDING TO THE CASE OF THE BATTERY IS REQUIRED, CONSULT YOUR SANYO ENERGY CORP. REPRESENTATIVE FOR PROPER PRECAUTIONS TO PREVENT SEAL DAMAGE OR EXTERNAL SHORT CIRCUIT.

Transportation Information

Responsible Party Cage: 0BSY9 Trans ID NO: 154815 Product ID: PRC139B, CADNICA MSDS Prepared Date: 12/14/1994 Review Date: 10/01/2000 MFN: 1 Net Unit Weight: 1.100 LBS Multiple KIT Number: 0 Review IND: Y Unit Of Issue: EA Container QTY: 1

Type Of Container: BATTERY

Detail DOT Information

DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

Detail IATA Information

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail AFI Information

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AFI PSN Code: ZZZ AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION _____ HAZCOM Label _____ Product ID: PRC139B, CADNICA Cage: 0BSY9 Company Name: LYNTRONICS, INC.(AMERICAN POWERCELL BATTERY CO) Street: 7 OLD DOCK RD **City: YAPHANK NY** Zipcode: 11980 Health Emergency Phone: 516-205-1061 Label Required IND: Y Date Of Label Review: 10/01/2000 Status Code: A Origination Code: F Eye Protection IND: NO Skin Protection IND: NO Signal Word: NONE **Respiratory Protection IND: NO** Health Hazard: None Contact Hazard: None Fire Hazard: None Reactivity Hazard: None Hazard And Precautions: INHALATION: DURING NORMAL USE INHALATION IS AN UNLIKELY ROUTE OF EXPOSURE DUE TO CONTAINMENT OF HAZARDOUS MATERIALS WITHIN THE BATTERY CASE. HOWEVER SDHOULD THIS BATTERY BE EXPOSED TO EXTREME HEAT OR PRESSURES CAUSING A BREACH IN THE BATTERY CE LL CASE, CADMIUM DUSTS & amp; FUMES MAY BE EMITTED. INHALATION OF CADMIUM DUSTS OR FUMES MAY CAUSE THROAT DRYNESS, RESPIRATORY IRRITATION, HEADACHE, NAUSEA, VOMIT ING, CHEST PAIN, EXTREME RESTLESSNESS & amp; IRRITABILITY, PNEUMONITIS, & amp; BRONCHOPNEUMONIA, IN THE CASE OF HIGH CONCENTRATION EXPOSURES (E.G., ABOVE 1 TO 5 MG/M3 DURING AN EIGHT HOUR PERIOD) DEATH MAY OCCU R WITHIN SEVERAL DAYS AFTER EXPOSURE.

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