

MOLTECH POWER SYSTEMS INC -- MOLTECH POWER SYSTEMS RECHARGEABLE BATTERY --
6140-01-411-8783

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Product Identification
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Product ID:MOLTECH POWER SYSTEMS RECHARGEABLE BATTERY

MSDS Date:08/29/2001

FSC:6140

NIIN:01-411-8783

Status Code:A

MSDS Number: CLLHJ

=== Responsible Party ===

Company Name:MOLTECH POWER SYSTEMS INC

Address:12801 NW HWY 441

City:ALACHUA

State:FL

ZIP:32615

Country:US

Info

Phone Num:904-462-6886/800-556-0700

Emergency Phone Num:800-556-0700

CAGE:1PR83

=== Contractor Identification ===

Company Name:KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721

City:BRISTOL

State:PA

ZIP:19007-3517

Country:US

Phone:215-736-2000

Contract Num:SP0411-01-W-E191

CAGE:7Z016

Company Name:MOLTECH POWER SYSTEMS INC

Address:12801 NW HWY 441

Box:City:ALACHUA

State:FL

ZIP:32615

Country:US

Phone:904-462-6886/800-556-0700

CAGE:1PR83

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Composition/Information on Ingredients
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Ingred Name:CADMIUM METAL
CAS:7440-43-9
RTECS #:EU9800000
Minumum % Wt:13.
Maxumum % Wt:22.
OSHA PEL:5 MG/M3 (AS CD)
ACGIH TLV:0.01 MG/M3 (AS CD)
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM OXIDE
CAS:1306-19-0
RTECS #:EV1925000
Minumum % Wt:13.
Maxumum % Wt:22.
OSHA PEL:5 MG/M3 (AS CD)
ACGIH TLV:0.01 MG/M3 (CD)

Ingred Name:CADMIUM HYDROXIDE
CAS:21041-95-2
RTECS #:EV1260000
Minumum % Wt:13.
Maxumum % Wt:22.
OSHA PEL:5 MG/M3 (AS CD)
ACGIH TLV:0.01 MG/M3 (AS CD)

Ingred
Name:COBALT METAL
CAS:7440-48-4
RTECS #:GF8750000
Minumum % Wt:.5
Maxumum % Wt:2.
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.02 MG/M3

Ingred Name:COBALT OXIDE
CAS:1307-96-6
RTECS #:GG2800000
Minumum % Wt:.5
Maxumum % Wt:2.
OSHA PEL:0.1 MG/ME (AS CO)
ACGIH TLV:0.02 MG/M3

Ingred Name:COBALT HYDROXIDE
CAS:21041-93-0
RTECS #:GG0904500
Minumum % Wt:.5
Maxumum % Wt:2.
OSHA PEL:0.1 MG/M3 (AS CO)
ACGIH TLV:0.02 MG/M3 (AS CO)

Ingred Name:LITHIUM HYDROXIDE
CAS:1310-65-2
RTECS #:OJ6307070
Minumum % Wt:0.
Maxumum %

Wt:4.
OSHA PEL:NONE ESTABLISHED
ACGIH TLV:NONE ESTABLISHED

Ingred Name:NICKEL METAL
CAS:7440-02-0
RTECS #:QR5950000
Minumum % Wt:20.
Maxumum % Wt:32.
OSHA PEL:1 MG/M3 (AS NI)
ACGIH TLV:1.5 MG/M3 (INH-NI)
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:NICKEL OXIDE
CAS:1313-99-1
RTECS #:QR8400000
Minumum % Wt:20.
Maxumum % Wt:32.
OSHA PEL:1 MG/M3 (NI)
ACGIH TLV:1.5 MG/M3 (INH-NI)

Ingred Name:NICKEL HYDROXIDE
CAS:12054-48-7
RTECS #:QR7040000
Minumum % Wt:20.
Maxumum % Wt:32.
OSHA PEL:1 MG/
M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE
CAS:1310-58-3
RTECS #:TT2100000
Minumum % Wt:0.
Maxumum % Wt:4.
OSHA PEL:NONE ESTABLISHED
ACGIH STEL:C2 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM HYDROXIDE
CAS:1310-73-2
RTECS #:WB4900000
Minumum % Wt:0.
Maxumum % Wt:4.
OSHA PEL:2 MG/M3
ACGIH STEL:C2 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mix

ture:NO DATA PROVIDED BY MANUFACTURER

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:INGESTION: SWALLOWING A BATTERY CAN BE HARMFUL. INHALATION: CONTENTS OF AN OPEN BATTERY CAN CAUSE RESPIRATORY IRRITATION. SKIN: CONTENTS OF AN OPEN BATTERY CAN CAUSE SKIN IRRITATION AND/OR CHEMICAL BURNS. EYE: CONTENTS OF AN OPEN BATTERY CAN CAUSE SEVERE IRRITATION AND CHEMICAL BURNS.

Explanation of Carcinogenicity:NICKEL, NICKEL COMPOUNDS, CADMIUM, CADMIUM C

OMPOUNDS, COBALT AND COBALT COMPOUNDS ARE LISTED AS POSSIBLE CARCINOGENS.

Effects of Overexposure:INGESTION: CHEMICAL BURNS OF MOUTH, ESOPHAGUS, GASTROINTESTINAL TRACT; CAN CAUSE EXCESSIVE SALIVATION, CHOKING, NAUSEA, PERSISTENT VOMITING, DIARRHEA, ABDOMINAL PAIN, DIZZINESS, FAINTNESS, UNCONSCIOUSNESS AND POSSIBLE LIVER AND KIDNEY INJURY. INHALATION: METAL FUME FEVER, ALLERGIC PULMONARY ASTHMA. SKIN: SKIN SENSITIZATION, ALLERGIC CONTACT DERMITITIS. EYE: SEVERE IRRITATION

AND CHEMICAL BURNS.

===== First Aid Measures =====

First Aid:INGESTION: IF BATTERY OR OPEN BATTERY IS INGESTED, DO NOT INDUCE VOMITING OR GIVE FOOD OR DRINK. SEEK MEDICAL ATTENTION IMMEDIATELY. CALL NATIONAL BATTERY INGESTION HOTLINE(202-625-333) COLLECT, DAY OR NIGHT. INHALATION: PROVIDE FRESH AIR AND SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. IF CHEMICAL BURN OCCURS OR IF IRRITATION

PERSISTS, SEEK MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF THE CHEMICAL REMAINS. SEEK MEDICAL ATTENTION.

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

Extinguishing Media:IN CASE OF FIRE, IT IS PERMISSABLE TO USE ANY CLASS EXTINGUISHING MEDIUM ON THESE BATTERIES OR THEIR PACKING MATERIALS.

Fire Fighting Procedures:IF FIRE OR EXPLOSION OCCURS WHEN BATTERIES ARE

ON CHARGE, SHUT OFF POWER TO CHARGER. COOL EXTERIOR OF BATTERIES IF EXPOSED TO FIRE TO PREVENT RUPTURE. FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:NICKEL-CADMIUM BATTERIES INVOLVED IN A FIRE CAN VENT AND PRODUCE TOXIC FUMES INCLUDING NICKEL, NICKEL OXIDES, CADMIUM, CADMIUM OXIDES AND COBALT OXIDES.

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

Spill Release Procedures:NO DATA PROVIDED BY MA

MANUFACTURER

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

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Handling and Storage
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Handling and Storage Precautions:ACCIDENTAL SHORT CIRCUIT FOR A FEW SECONDS WILL NOT SERIOUSLY AFFECT THE BATTERY. THIS BATTERY IS CAPABLE OF DELIVERING VERY HIGH SHORT CIRCUIT CURRENTS. PROLONGED SHORT CIRCUITS WILL CAUSE HIGH CELL TEMPERATURES WHICH CAN CAUSE SKIN BURNS. SOURCES OF SHORT CIRCUIT INCLUDE JUMBLED BATTERIES IN BULK

Other Precautions:

STORE IN A COOL, WELL-VENTILATED AREA. ELEVATED TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE.

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Exposure Controls/Personal Protection
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Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS.

Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS.

Protective Gloves:NOT NECESSARY UNDER NORMAL CONDITIONS. IF LEAKING WEAR NEOPRENE/NATURAL RUBBER

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS FOR OPEN/LEAKING BATTERIES

Other Protective Equipment:NO

DATA PROVIDED BY MANUFACTURER

Work Hygienic Practices:NO DATA PROVIDED BY MANUFACTURER

Supplemental Safety and Health

KAMPI P/N: 571143014. CHARGING: USE RECOMMENDED CHARGER. IMPROPER CHARGING CAN CAUSE HEAT DAMAGE OR EVEN HIGH PRESSURE RUPTURE. OBSERVE PROPER CHARGING POLARITY.

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Physical/Chemical Properties
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HCC:Z5

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Stability and Reactivity Data
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NO DATA PROVIDED BY MANUFACTURER

Stability Condition to Avoid:N

NO DATA PROVIDED BY MANUFACTURER

Hazardous Decomposition Products:NO DATA PROVIDED BY MANUFACTURER

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Toxicological Information
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Toxicological Information:NO DATA PROVIDED BY MANUFACTURER

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Ecological Information
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Ecological:NO DATA PROVIDED BY MANUFACTURER

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Disposal Considerations
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Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL

OCAL REGULATIONS. WHEN GENERATED AS A WASTE
THESE BATTERIES MAY BE REGULATED BY RCRA AS A D006(CADMIUM)
HAZARDOUS WASTE.

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

Transport Information:THE TRANSPORTATION OF DRY CELL BATTERIES
MANUFACTURED OR SOLD BY MOLTECH POWER SUPPLY SYSTEMS, INC. IS NOT
REGULATED BY THE US DEPARTMENT OF TRANSPORTATION OR THE MAJOR
INTERNATIONAL REGULATORY BODIES .

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

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SARA Title III Information:AS AN ARTICLE, THIS BATTERY AND ITS CONTENTS
ARE NOT SUBJECT TO THE REQUIREMENTS OF THE EMERGENCY PLANNING AND
COMMUNITY RIGHT-TO-KNOW ACT

Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

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

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assume responsibility for the suitability of this information to their
particular situation.