

MATSUSHITA-CHO INDUSTRIAL CO., LTD. -- NICKEL-CADMIUM BATTERY -- 6140-01-412-9128
===== Product Identification =====

Product ID:NICKEL-CADMIUM BATTERY

MSDS Date:10/27/1993

FSC:6140

NIIN:01-412-9128

MSDS Number: CJFBQ

=== Responsible Party ===

Company Name:MATSUSHITA-CHO INDUSTRIAL CO., LTD.

Address:MORIGUCHI

City:OSAKA, 570 JAPAN

Emergency Phone Num:(81) 467-53-2317

Resp. Party Other MSDS Num.:FO

R PM 9086 BATTERY PACK USED IN SCOPEME

CAGE:S7424

=== Contractor Identification ===

Company Name:BOURN AND HICKOK CORP

Address:3121 ORANGE GROVE AVE

Box:City:NORTH HIGHLAND

State:CA

ZIP:95660

Country:US

Phone:916-972-0442

Contract Num:SP0 430-99-M-F644

CAGE:0CZ24

Company Name:MATSUSHITA-CHO INDUSTRIAL CO., LTD.

Address:MORIGUCHI

Box:City:OSAKA, 570

Country:JA

Phone:201-392-4454

CAGE:S7424

===== Composition/Information on Ingredients =====

Ingred Name:NI(OH)₂

Minimum % Wt:0.

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Maximum % Wt:10.
Other REC Limits:NONE RECOMMENDED

Ingredient Name:NIOOH
Minimum % Wt:1.
Maximum % Wt:12.
Other REC Limits:NONE RECOMMENDED

Ingredient Name:CADMIUM
CAS:7440-43-9
RTECS #:EU9800000
Minimum % Wt:1.
Maximum % Wt:15.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:see 1910.1027
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingredient Name:CD(OH)2
Minimum % Wt:3.
Maximum % Wt:16.
Other REC Limits:NONE RECOMMENDED

Ingredient Name:KOH / NAOH
Minimum % Wt:2.
Maximum % Wt:4.

Ingredient Name:LIOH
= Wt:.4
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE OVEREXPOSURE - CONTACT WITH
ALKALINE LIQUID MAY DAMAGE EYES AND/OR SKIN. CHRONIC OVEREXPOSURE -
CADMIUM MAY DAMAGE LUNG OR KIDNEY.
Explanation of Carcinogenicity:CONTAINS CADMIUM AND NICKEL.
Effects of Overexposure:PAIN, BURNS, TEARING

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First Aid Measures
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First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED: MOVE TO FRESH AIR. CALL PHYSICIAN. EYES: FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE PHYSICIAN. SKIN: WASH WITH LARGE VOLUME OF WATER, MILD ACID MAY BE USED TO NEUTRALIZE. INGESTION: IF BATTERY/OPEN BATTERY IS INGESTED, DO NOT INDUCE VOMITING OR GIVE FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333).

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Fire Fighting Measures
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Flash Point:NONE
Extinguishing Media:USE WATER, CO2, OR CCL4TO EXTINGUISH FIRE.
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-PPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.
Unusual Fire/Explosion Hazard:TOXIC CADMIUM OXIDE FUMES MAY BE RELEASED DURING BURNING.

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Accidental Release Measures
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Spill Release Procedures:FLUSH ELECTROLYTE SPILLS WITH WATER.
Neutralizing Agent:DILUTE ACID

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Handling and Storage
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Handling and Storage Precautions:STORE IN A COOL, DRY AREA. DO NOT BREAK, OPEN BATTERY CELL.
Other Precautions:DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. KEEP BATTERIES AWAY FROM SMALL CHILDREN. STORE IN A WELL VENTILATED AREA. DO NOT DISPOSE OF IN FIRE. DO NOT SHORT CIRCUIT. DO NOT USE DIFFERENT TYPES OF BATTERIES IN THE SAME BATTERY ASSEMBLY.

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Exposure Controls/Personal Protection
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Respiratory Protection:IN THE NORMAL CONDITION OF USE, IT IS NOT NEEDED.
Ventilation:IT IS NEVER ADMITTED TO USE THE CELL IN THE HERMETICALLY SEALED VESSEL. IN THE USAGE OF THE VESSEL, ANY VENTILATION HOLES ARE NEEDED.
Protective Gloves:NOT NECESSARY. ANTI-ALKALINE IF INTENTIONALLY DISASSEMBLING THE CELL.
Eye Protection:SPECIFIED PROTECTION GO

GGLE IS NEEDED IF INTENTIONALLY
DISASSEMBLING THE CELL.

Other Protective Equipment:IN THE NORMAL CONDITION, IT IS NOT NEEDED
SPECIFICALLY. EYE BATH, WASHING FACILITY, LAB COAT OR UNIFORM

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING,
DRINKING OR SMOKING.

Supplemental Safety and Health

EACH BATTERY CELL IS A SEALED CYLINDRICAL CONTAINER ENCLOSING A NICKEL
ELECTRODE, A CADMIUM ELECTRODE, SEPAR
ATORS AND ALKALINE
ELCTROLYTES.

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

HCC:Z5

Appearance and Odor:EA BATTERY CELL IS A SEALED CYLINDRICAL CONTAINER
ENCLOSING A NICKEL ELECTRODE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:EXCESSIVE HEAT

Hazardous Decomposition Products:ALKALINE LIQUID MAY BE RELEASED.

===== Disposal Considerations =====

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Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL,
STATE, AND FEDERAL LAWS AND REGULATIONS. RECYCLING RECOMMENDED

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