

MATSUSHITA BATTERY 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  
Status Code:A  
MSDS Number: CKDRP  
=== Responsible Party ===  
Company Name:MATSUSHITA BATTERY INDUSTRIAL CO LTD  
Address:11-66 HONSYUKU-CHO, CHIGASAKI  
City:KANAGAWA, 253  
Country:JA  
Info Phone Num:(81) 467  
-53-2317  
Emergency Phone Num:(81) 467-53-2317  
CAGE:MATS1  
=== Contractor Identification ===  
Company Name:FLUKE, JOHN MFG CO INC  
Address:6920 SEAWAY BLVD  
Box:9090  
City:EVERETT  
State:WA  
ZIP:98206-9090  
Country:US  
Phone:206-347-6100  
CAGE:89536  
Company Name:MATSUSHITA BATTERY INDUSTRIAL CO LTD  
Address:11-66 HONSYUKU-CHO, CHIGASAKI  
Box:City:KANAGAWA, 253  
Country:JA  
Phone:(81) 467-53-2317  
CAGE:MATS1

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

Ingred Name:NI(OH)2  
Minimum % Wt:0

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

Ingred Name:NIOOH  
Minumum % Wt:1.  
Maxumum % Wt:12.  
Other REC Limits:NONE RECOMMENDED

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

Ingred Name:CD(OH)<sub>2</sub>  
Minumum % Wt:3.  
Maxumum % Wt:16.  
Other REC Limits:NONE RECOMMENDED

Ingred Name:KOH / NAOH  
Minumum % Wt:2.  
Maxumum % Wt:4.

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

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Health Hazards Acute and Chronic:EACH BATTERY CELL IS A SEALED  
CYLINDRICAL CONTAINER ENCLOSING A NICKEL ELECTRODE, A CADMIUM  
ELECTRODE, SEPARATORS, AND ALKALINE ELECTROLYTE. IN CASE OF BATTERY  
CELL LEAKING: ACUTE OVEREXPOSURE: CONTACT WITH ALKALINE LIQUID MAY  
DAMGE SKINS. CHRONIC OVEREXPOSRE: NICKEL, CADMIUM MAY DAMGE LUNG  
OR KI

DNEY.

Explanation of Carcinogenicity:NO CARCINOGEN. NTP: UNKNOWN, L.A.R.C.: UNKNOWN. OSHA: UNKNOWN.

Effects of Overexposure:MAY DAMAGE SKINS, LUNGS, KIDNEYS..

Medical Cond Aggravated by Exposure:UNKNOWN.

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

First Aid:EYES: FLUSH WITH WATER, GET MEDICAL ATTENTION. SKIN: WASH WITH LARGE VOLUME OF WATER, MILD ACID MAUY BE USED TO NEUTRALIZE. INHALATION: MOVE TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION: GET MEDICAL ATTENTION IMMEDIATELY.

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

Extinguishing Media:USE WATER, CARBON DIOXIDE, OR CARBON TETRACHLORIDE TO EXTINGUISH FIRE.  
Unusual Fire/Explosion Hazard:TOXIC CADMIUM OXIDE FUMES MAY BE RELEASED DURING BURNING.

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

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

=====  
===== Handling and Storage =====

Handling and Storage Precautions:DO NOT BREAK, OPEN BATTERY CELL.  
Other Precautions:DO NOT DISPOSE OF IN FIRE. DO NOT SHORT CIRCUIT. DO NOT USE DIFFERENT TYPES OF BATTERIES IN THE SAME BATTERY ASSEMBLY.

=====  
===== Exposure Controls/Personal Protection =====

Respiratory Protection:IN THE NORMAL CONDITION OF USE, IT IS NOT NEEDED.  
Ventilation:IT IS NOT PERMITTED TO INSTALL THE CELL IN A HERMETICALLY SEALED VESSEL. IN USAGE THE VESSEL, NEEDS TO HAVE VENT HOLES.  
Protective Gloves:NOT NECESSARY. USE ALKALINE RESISTANT GLOVES IF DISASSEMBLING CELL.  
Eye Protection:PROTECTION GOGGLES NEEDED IF INTENTIONALLY DISASSEMBLING BATTERY CELL.  
Other Protective Equipment:IN THE NORMAL CONDITION, IT IS NOT NEEDED SPECIFICALLY.  
Supplemental Safety and Health  
EACH BATTERY CELL IS A SEALED CYLINDRICAL CONTAINER ENCLOSING A NICKEL ELECTRODE, A CADMIUM ELECTRODE, SEPARATORS AND ALKALINE ELECTROLYTES.

=====  
===== Physical/Chemical Proper

ties =====

HCC:Z5

Appearance and Odor:BATTERY CELL IS SEALED CYLINDRICAL CONTAINER.

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:EXCESSIVE HEAT.

Hazardous Decomposition Products:ALKALINE LIQUID MAY BE RELEASED.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH APPLICABLE

LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. RECYCLING RECOMMENDED

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

Transport Information:A NON-SPILLABLE WET STORAGE BATTERY IS EXCEPTED FROM ALL OTHER REQUIREMENTS OF THIS SUBCHAPTER IF: (1) THE BATTERY IS PROTECTED AGAINST SHORT CIRCUIT; (2) FOR BATTERIES MANUFACTURED AFTER SEPTEMBER 30 , 1995, THE BATTERY AND THE OUTER PASKAGING MUST BE PLAINLY AND DURABLY MARKED "NONSPILLABLE" OR

"NONSPILLABLE

BATTERY", AND (3). THE BATTERY MUST BE CAPABLE OF WITHSTANDING THE FOLLOWING TWO TESTS WI THOUT LEAKAGE OF BATTERY FLUID FROM THE BATTERY: (1) VIBRATION TEST; (2)PRESSURE DIFFERENTIAL TEST. SEE 49 CFR 173.159(D).

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

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this informati

on to be accurate and

disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.