

PANASONIC INDUSTRIAL CO AFFIL MATSUSHITA ELECTRIC -- NICKEL-CADMIUM BATTERY,
PN:NTN-5414B -- 6140-01-381-1065

===== Product Identification =====

Product ID:NICKEL-CADMIUM BATTERY, PN:NTN-5414B

MSDS Date:02/01/1992

FSC:6140

NIIN:01-381-1065

MSDS Number: BXPWN

=== Responsible Party ===

Company Name: PANASONIC INDUSTRIAL CO AFFIL MATSUSHITA ELECTRIC

Address: 2 PANASONIC WAY

City: SECAUCUS

State: NJ

ZIP:

07094

Country: US

Info Phone Num: 201-392-6464

Emergency Phone Num: 201-392-6464

Preparer's Name: CHARLES P. MONAHAN

CAGE: 0J4G8

=== Contractor Identification ===

Company Name: PANASONIC INDUSTRIAL CO DIV OF MATSUSHITA ELECT CORP OF
AMER

Address: TWO PANASONIC WAY

Box: City: SECAUCUS

State: NJ

ZIP: 07094

Country: US

Phone: 877-726-2228

CAGE: 0J4G8

Company Name: SCAN-O-MATIC INC

Address: 5100 21ST ST

Box: UNKNOW

City: RACINE

State: WI

ZIP: 53406-5025

Country: US

Phone: 414-554-6811

CAGE: 60158

===== Compo

sition/Information on Ingredients =====

Ingred Name:NICKEL (II) HYDROXIDE (SARA 313) (CERCLA) (NI(OH)2)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: 0-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG(NI)/M3

ACGIH TLV:0.1 MG(NI)/M3; 9495

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM (SARA 313) (CERCLA)

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 1-15%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.2 MG/M3 DUST; Z-2

ACGIH TLV:0.01 MG/M3 DUST;9495

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE

CAS:21041-95-2

Fraction by Wt: 3-16%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG CD/M3

ACGIH TLV:0.05 MG CD/M3

Ingred Name:POTASSIUM HYDROXIDE OR SODIUM HYDROXIDE

Fraction by Wt: 2-4%

Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM HYDROXIDE, EQUAL TO OR GREATER THAN 0.4%.

CAS:1310-65-2

RTECS #:OJ6307070

Fraction by Wt: SEE ING

Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL HYDROXIDE (NIOH)

Fraction by Wt: 1-12%

Other REC Li

mits:NONE RECOMMENDED

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===== Hazards Identification =====
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHAL:ANY POISONOUS GAS WILL NOT BE
GENERATED. INHAL OF GAS WILL NOT GIVE ANY HARM. SKIN:IN NORMAL
SITUATION NO DAMAGE TO SKIN. HOWEVER IN ABUSED SITUATION
ELECTROLYTE (ALKALINE LIQUID) SILL BE LEAKED OUT OF CAE WHICH MAY
DAMAGE SKIN IF TOUCHED. NO INGESTION.

Explanation of Carcinogenicity:PER MSDS:NO C
ARCINOGEN.

Effects of Overexposure:SKIN DAMAGE (IF BATTERY IS BROKEN OR LEAKING.)
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====
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First Aid:NONE SPECIFIED BY MANUFACTURER. HOWEVER USE AMERICAN RED
CROSS FIRST AID.

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===== Fire Fighting Measures =====
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Extinguishing Media:WATER CO2, CCL4.
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.
Unusual Fire/Explosion Haz
ard:IN ABNORMAL USAGE(CELL
OVERCHARGED/REVERSELY CHARGED BY 50-60A;CELL UNDER >1000C;CELL
DISCHARGED/CHARGED & IGN SOURCES EXISTED IN VESSEL)POSSIBILITY OF
EXPLO.

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===== Accidental Release Measures =====
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Spill Release Procedures:IN CASE OF DISASSEMBLED CELL PRECAUTION THAT
ALKLINE LIQUID LEAKED OUT OF CELL SHALL NOT BE PUT IN EYES IS
NEEDED. IF IT WAS PUT INTO EYES EYES SHALL BE WASHED OUT IMMED. IF
ALKALINE LIQUID WAS ATTACHE D TO SKIN SKIN SH
ALL BE WASH OUT IMMED.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====
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Handling and Storage Precautions:NEVER SHORT-CIRCUIT CELLS. IF
SHORT-CIRCUTED BODY MAY BE BURNED OR INJURED.
Other Precautions:NO FLASH/EXPLO IN NORMAL SITUATION.FLASH
POSSIBLE:SPARKING IN CASE OF SHOURT-CIRCUIT;INTENTIONALLY
DISCHARGING CELL W/EXTREMELY HIGH CURRENT.EXPLO POSSIBLE:CELL WILL
NOT HAVE EXPLO IF ABUSED BECAUSE O F SAF VENT M

ECHANISM.IF CELL
HOUSED(SUP)

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

Respiratory Protection:IN NORMAL CONDITION IT IS NOT NEEDED SPECIFICALLY.

Ventilation:IN THE USAGE OF THE VESSEL, ANY VENTILATION HOLES ARE NEEDED.

Protective Gloves:NONE SPECIFIED BY MANUFACTURER.

Eye Protection:NONE SPECIFIED BY MANUFACTURER.

Other Protective Equipment:NOT NECESSARY HOWEVER IN CASE OF INTENTIONALLY DISASSEMBLING CEL PROTECTION OF ANTI-ALKALINE IS NEEDED.

Work

Hygienic Practices:WASH HANDS AFTER HANDLING.

Supplemental Safety and Health

OTHER PRECAUT:IN HERMETICALLY SEALED VESSEL CELL WILL HAVE STATUS OF POSSIBLE EXPLO W/IGN SOURCE BECAUSE OF COMBINATION OF OXY & HYDROGEN GENERATED BY CELL.

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

HCC:N1

Boiling Pt:B.P. Text:338F,170C

Spec Gravity:2.6

Appearance and Odor:SOLID AND SEALED BY IRON CASE.

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

Stability I

ndicator/Materials to Avoid:YES

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. HOWEVER AVOID OVERCHARGING, REVERSE CHARGING, & PHYSICAL DAMAGE TO BATTERY.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:TO BE DISPOSED IN THE DISCHARGED CONDITION.

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