

BREN-TRONICS INC -- NICKEL-CADMIUM BATTERY, SEALED B4044015 -- 6140-01-251-8652

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

Product ID:NICKEL-CADMIUM BATTERY, SEALED B4044015

MSDS Date:11/25/1993

FSC:6140

NIIN:01-251-8652

MSDS Number: BSBBG

=== Responsible Party ===

Company Name:BREN-TRONICS INC

Address:10 BRAYTON CT

City:COMMACK

State:NY

ZIP:11725-3104

Country:US

Info Phone Num:516-499-5155

Emergency Phon

e Num:516-499-5155

Preparer's Name:CECOM SAFETY OFFICE

CAGE:51828

=== Contractor Identification ===

Company Name:BREN-TRONICS INC

Address:10 BRAYTON CT

Box:City:COMMACK

State:NY

ZIP:11725-3104

Country:US

Phone:631-499-5155

CAGE:51828

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

Ingred Name:CADMIUM (SARA III)

CADMIUM & CADMIUM HYDROXIDE 11-26%

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 11-26%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.102

7

ACGIH TLV:0.01 MG/M3 DUST;9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE

CADMIUM & CADMIUM HYDROXIDE 11-26%

CAS:21041-95-2

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3 (CD FUME)

ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name:COBALT (SARA III)

COBALT & COBALT HYDROXIDE (TRACE AMOUNTS)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: TRACE

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:COBALT HYDROXIDE

COBALT & COBALT HYDROXIDE (TRACE AMOUNTS)

CAS:21041-93-0

Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL (SARA III)

NICKEL AND NICKEL HYDROXIDE 13-29%

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 13-29%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9293

Ingred Name:NICKEL HYDROXIDE (SARA III)

NICKEL & NICKEL HYDROXIDE 13-29%

CAS:12054-48-7

RTECS #:QR7040000

Other REC Limits:NONE

RECOMMENDED  
OSHA PEL:1 MG NI/M3  
ACGIH TLV:0.1 MG NI/M3; 9293  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fraction by Wt: < 3%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Rep  
orts of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:INTACT BATTERIES PRESENT NO SPECIFIC  
HAZARDS. BURNING BATTERIES MAY EMIT TOXIC FUMES. LEAKING  
BATTERIES LEAK CORROSIVE MATERIAL IRRITATING TO SKIN, EYES AND  
MUCOUS MEMBRANES  
Explanation of Carcinogenicity:CD, NI, ARE NTP SUSPECT CARCINOGENS. CD  
IS IARC CARCINOGEN.  
Effects of Overexposure:ELECTROLYTE EXPOSURE TO SKIN/EYES WILL CAUSE  
SEVERE IRRITATION. INHALATION OF FUMES MAY CAUSE SEVERE  
  
RESPIRATORY IRRITATION.  
Medical Cond Aggravated by Exposure:RESPIRATORY ALIMENTS- W/BURNING  
BATTERIES SKIN CONDITIONS- W/ LEAKING BATTERIES

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

First Aid:IF BATTERY CONTENTS COME IN CONTACT WITH THE BODY WASH  
AFFECTED AREA FOR AT LEAST 15 MINUTES WITH CLEAN WATER.DO NOT  
ATTEMPT TO NEUTRALIZE. SEEK MEDICAL ATTENTION PROMPTLY.

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

Extinguishing Medi

a:CARBON DIOXIDE OR DRY CHEMICAL FIRE EXTINGUISHER,  
10-B:C

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE SELF CONTAINED  
BREATHING APPARATUS. BATTERY/CELLS MAY RELEASE TOXIC FUMES, IF  
SUBJECT TO FIRE/EXTREME HEAT.

Unusual Fire/Explosion Hazard:STRONG OXIDERIZERS (E.G.,ACIDS) AND FIRE.

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

Spill Release Procedures:SPILL OR LEAK PROCEDURES (PRECAUTIONS FOR SAFE  
HANDLING & USE) AVOID SKIN OR EYE CONTACT. USE NON FL

AMMABLE

ABSORBENT MATERIAL FOR CLEAN-UP. COORDINATE WITH INSTALLATION  
SAFETY AND ENVIRONMENTAL OFFIC ES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT ABUSE OR SHORT CIRCUIT. STORE  
COOL, DRY AND IN A WELL VENT AREA. SEPARATE FROM OTHER HAZARDOUS  
MATERIALS. AREA APPROVED BY LOCAL FIRE DEPARTM

Other Precautions:DO NOT INVERT BATTERY OR CAUSE TO SPILL. RECHARGE  
IAW

METHODS SPECIFIED IN APPLICIABLE TECHNICAL MANUAL. DO NOT  
OVERCHARGE.

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

Respiratory Protection:IF BATTERIES ARE BURNING USE SCBA

Ventilation:CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE  
IF LOCAL EXHAUST VENTILATION IS NEEDED

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:CHEMICAL SAFETY GLASSES/GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT APRON

Work Hygienic Practices:AVOID SKIN EYE

CONTACT WITH ELECTROLYTE. DO NOT

EAT OR SMOKE IN BATTERY SERVICE AREA.

Supplemental Safety and Health

CONTRACT # ???? THIS MSDS WAS CODED FROM A CECOM MATERIAL SAFETY DATA  
SHEET NOT THE MANUFACTUERS. CECOM SAFETY OFFICE, FT MONMOUTH, NJ  
07703-5024 AUTOVON 995-3112.

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

HCC:Z5

pH:UNK

Appearance and Odor:NICKEL-CADMIUM BATTERY,SEALED

Percent Volatiles by Volume:UNK

Corrosion Rate:UNK

===== Stability an

d Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS (E.G., ACIDS). STORE SEPARATELY FROM OTHER  
HAZARDOUS MATERIALS

Stability Condition to Avoid: FIRE AND EXTREME HEAT. DO NOT SHORT  
CIRCUIT OR OVERCHARGE

Hazardous Decomposition Products: WHEN EXPOSED TO FIRE OR EXTREME HEAT,  
BATTERIES MAY EMIT TOXIC FUMES

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

Waste Disposal Methods: DISPOSAL MUST BE IN ACCORDANCE WITH A  
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APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. COORDINATE WITH  
SUPPORTING INSTALLATION AND/OR MACOM ENVIRONMENTAL OFFICE PRIOR TO  
DISPOSAL

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