

BREN-TRONICS -- BA-48/U CARBON-ZINC BATTERY -- 6135-00-120-1007  
===== Product Identification =====

Product ID:BA-48/U CARBON-ZINC BATTERY

MSDS Date:07/15/1993

FSC:6135

NIIN:00-120-1007

MSDS Number: BRSYV

=== Responsible Party ===

Company Name:BREN-TRONICS

Address:10 BRAYTON COURT

City:COMMACK

State:NY

ZIP:11725

Country:US

Info Phone Num:(516)-499-5155

Emergency Phone Num:(516)-499-5155

CAGE:DO086

=== Contractor Identification ===

Company Name:BREN-TRONICS

Ad

dress:10 BRAYTON CT

Box:City:COMMACK

State:NY

ZIP:11725-5504

Phone:516-499-5155

CAGE:DO086

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:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000

Fraction by Wt: 19%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 MG ZNO/M3

ACGIH TLV:10 MG ZNO/M3; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000

LBS

Ingred Name:MANGANESE DIOXIDE  
CAS:1313-13-9  
RTECS #:OP0350000  
Fraction by Wt: 60%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3 CEILING  
ACGIH TLV:5 MG/M3 (AS MN DUST)

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fraction by Wt: 20%  
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

Ingred Name:MERCURY (SARA III)  
CAS:7439-97-6  
RTECS #:OV4550000  
Fraction by Wt: 1%  
Other REC Limits:NON  
E RECOMMENDED  
OSHA PEL:S, C, 0.1 MG/M3  
ACGIH TLV:S, 0.05 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Health Hazards Acute and Chronic:INTACT BATTERIES PRESENT NO SPECIFIC  
HAZARDS. BURNING BATTERIES EMIT HIGHLY TOXIC FUMES. LEAKING  
BATTERIES LEAK CORROSIVE MATERIAL IRRITATING TO SKIN, EYES AND  
MUCOUS MEMBRANES.  
Effects of Overexposure:EXPOSURE TO LEAKING EL  
ECTROLYTE CAN CAUSE  
SEVERE IRRIATION TO EYES OR SKIN. INHALATION OF FUMES MAY CAUSE  
SEVERE RESPIRATORY IRRITATION.  
Medical Cond Aggravated by Exposure:BURNING BATTERIES: RESPIRATORY  
ALIMENTS. LEAKING BATTERIES; SKIN CONDITIONS.

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

First Aid:IF BATTERY CONTENTS COME IN CONTACT WITH THE BODY (EG HAND  
EYE) WASH AFFECTED AREA FOR AT LEAST 15 MIN WITH CLEAN WATER. [ DO  
NOT ] ATTEMPT TO NEUTRALIZE. SEEK MEDICAL

ATTENTION PROMPTLY.

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

Extinguishing Media:CARBON DIOXIDE OR DRY CHEMICAL FIRE EXTINGUISHER,  
10-B:C.

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

Unusual Fire/Explosion Hazard:FIRE MAY CAUSE BATTERIES TO FUME

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

Spill Release

Procedures:AVOID SKIN EYE CONTACT. USE NONFLAMMABLE  
ABSORBENT MATERIAL FOR CLEAN UP.

Neutralizing Agent:NOT KNOWN

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

Handling and Storage Precautions:DO NOT ABUSE OR SHORT CIRCUIT. WHEN  
STORING BATTERIES, STORE COOL, DRY AND IN WELL VENTILATED AREA  
WHICH IS APPROVED BY THE LOCAL FIRE DEPARTMENT.

Other Precautions:DO NOT ATTEMPT TO RECHARGE

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

Respirat

ory 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:CHEMICALLY RESISTANT SPLASH GOGGLES

Other Protective Equipment:CHEMICALLY RESISTANT APRON

Work Hygienic Practices:IF BATTERY IS LEAKING AVOID CONTACT WITH SKIN  
OR EYES

Supplemental Safety and Health

THIS MSDS WAS CODED FROM A CECOM MATERIAL SAFETY DATA SHEET NOT THE  
M

ANFACTURERS MSDS. BATTERIES PROCURED UNDER CONTRACT #  
DAAB07-90-P-C020.

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

NRC/State Lic Num:NOT KNOWN

Evaporation Rate & Reference:NOT KNOWN

Solubility in Water:NOT KNOWN

Appearance and Odor:NOT KNOWN

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

Stability Indicator/Materials to Avoid:YES

STORE SEPERATELY FROM OTHER HAZARDOUS MATERIALS, AND GAIN LOCAL FIRE  
DEPARTMENT APPROVAL FOR STORAGE AR

EAS.

Stability Condition to Avoid:FIRE AND EXTREME HEAT

Hazardous Decomposition Products:WHEN EXPOSED TO FIRE OR EXTREME HEAT,  
BATTERIES MAY RUPTURE AND/OR EMIT FUMES.

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

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

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