

## **H-160DC-1 SILVER ZINC CELL BATTERY W/MERCURY**

### **MSDS Number**

BWYGT

### **National Stock Number**

6140-00F039099

### **Product Name**

H-160DC-1 SILVER ZINC CELL BATTERY W/MERCURY

### **Manufacturer**

BST SYSTEMS INC

### **Product Identification**

Product ID:H-160DC-1 SILVER ZINC CELL BATTERY W/MERCURY

MSDS Date:11/01/1993

FSC:6140

NIIN:00F039099

MSDS Number: BWYGT

### **Responsible Party**

BST SYSTEMS INC

78 PLAINFIELD PIKE RD

PLAINFIELD , CT 06374-1743

US

Emergency Phone: 203-564-4078

Info Phone: 203-564-4078

Cage: 62339

### **Contractor**

BST SYSTEMS INC

PLAINFIELD, CT 06374

US

203-564-4078

Cage: 62339

### **Ingredients**

SILVER

CAS: 7440-22-4

RTECS: VW3500000

OSHA PEL0.01 MG/CUM

ACGIH TLV: 0.1 MG/CUM

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

ZINC OXIDE \*95-1\*

CAS: 1314-13-2

RTECS: ZH4810000

OSHA PEL5 MG/CUM

ACGIH TLV: 5 MG/CUM FUME

MERCURIC OXIDE

CAS: 21908-53-2

RTECS: OW8750000

OSHA PEL0.05 MG/CUM

ACGIH TLV: 0.1 MG/CUM

POLYSULFONE

CAS: 25154-01-2

POTASSIUM HYDROXIDE

CAS: 1310-58-3

RTECS: TT2100000

ACGIH TLV: 2 MG/CUM (CEILING)

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

TEFLON

## Hazards

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:CONTACT W/POTASSIUM HYDROXIDE MAY BURN  
TISSUE. INHALATION OF POTASSIUM HYDROXIDE MIST MAY DAMAGE  
RESPIRATORY TRACT. INGESTION OF POTASSIUM HYDROXIDE CAUSES THROAT &  
GASTRO-RESPIRATORY BURNS. SKIN CONT ACT W/POTASSIUM HYDROXIDE  
CAUSES BURNS.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:POTASSIUM HYDROXIDE - BURNS.  
Medical Cond Aggravated by Exposure:NONE

## First Aid

First Aid:INHALATION: REMOVE FROM EXPOSURE. SKIN: WASH W/WATER. EYES:  
FLUSH W/WATER. INGESTION: DRINK WATER. DON'T INDUCE VOMITING.  
OBTAIN MEDICAL ATTENTION IN ALL CASES.

## Fire Fighting

Fire Fighting Procedures:WEAR SCBA TO PREVENT EXPOSURE TO MERCURY  
VAPORS WHICH MAY BE LIBERATED DURING A FIRE.  
Unusual Fire/Explosion Hazard:ACTIVATED BATTERY MAY PROVE A FIRE HAZARD  
IF EXTERNALLY SHORTED.

## Accidental Release

Spill Release Procedures:FOR POTASSIUM HYDROXIDE SPILL WEAR PROTECTIVE  
CLOTHING INCLUDING GLOVES & GOGGLES. AVOID CONTACT W/SKIN. CONTAIN  
& NEUTRALIZE. FLUSH W/WATER.  
Neutralizing Agent:WEAK ACID SUCH AS VINEGAR/BORIC ACID

## Handling

Handling and Storage Precautions:STORE DRY BATTERIES AT TEMPS BETWEEN  
0-40F. AVOID DIRECT SKIN CONTACT W/POTASSIUM HYDROXIDE.  
Other Precautions:WET BATTERIES NOT REQUIRED FOR 30 DAYS/LONGER SHOULD  
BE DISCHARGED AS PER MANUFACTURER'S OPERATING PROCEDURES & STORED  
AT TEMPS BETWEEN 0-40F. TO REDUCE ELECTROCUTION RISK, ALL  
ASSOCIATED TOOLS SHOULD BE INSULATED.

## Exposure Controls

Respiratory Protection:NONE REQUIRED  
Ventilation:LOCAL EXHAUST  
Protective Gloves:RUBBER/PLASTIC  
Eye Protection:CHEMICAL SPLASH GOGGLES  
Other Protective Equipment:LIQUID RESISTANT APRONS, SAFETY EYE WASH, SHOWER  
Work Hygienic Practices:REMOVE & LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
DECOMPOSITION PRODUCTS CONT'D: INCOMPLETE BURNING OF POLYSULFONE LIBERATES CO2, HYDROGEN GAS MAY BE RELEASED WHEN TEFLON BURNS.

## Chemical Properties

Appearance and Odor:CELL: RECTANGULAR CUBE OF CLEAR AMBER COLOR  
W/MULTIPLE ELECTRODES VISIBLE

## Stability

Stability Indicator/Materials to Avoid:YES  
HYDROGEN PEROXIDE, AMINES, REDUCING AGENTS, MOLTEN ALKALI METALS, ALUMINUM, TIN, METALS  
Stability Condition to Avoid:FIRE & TEMP >1763.6F  
Hazardous Decomposition Products:TEMP >1763.6F-SILVER OXIDE, POTASSIUM HYDROXIDE + METALS-HYDROGEN GAS, FIRE-MERCURY VAPORS, (SEE SUPPLEMENTAL DATA)  
Conditions to Avoid Polymerization:STORAGE TEMP >90F

## Disposal

Waste Disposal Methods:SPENT BATTERIES SHOULD BE COLLECTED FOR PRECIOUS METALS RECLAMATIONS IN ACCORDANCE W/FEDERAL, STATE & LOCAL REGULATIONS.

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 information 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.