

## **AZM190DC-1 SILVER ZINC CELL BATTERY W/MERCURY**

### **MSDS Number**

BWYGV

### **National Stock Number**

6140-00F039100

### **Product Name**

AZM190DC-1 SILVER ZINC CELL BATTERY W/MERCURY

### **Manufacturer**

BST SYSTEMS INC

### **Product Identification**

Product ID:AZM190DC-1 SILVER ZINC CELL BATTERY W/MERCURY

MSDS Date:11/01/1993

FSC:6140

NIIN:00F039100

MSDS Number: BWYGV

### **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.

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