

BST SYSTEMS INC -- AZL365DC-1, SILVER ZINC CELLS/BATTERIES WITH (SUPDAT) --
6135-01-213-7339

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Product Identification
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Product ID:AZL365DC-1, SILVER ZINC CELLS/BATTERIES WITH (SUPDAT)

MSDS Date:04/05/1995

FSC:6135

NIIN:01-213-7339

MSDS Number: CCBGX

=== Responsible Party ===

Company Name:BST SYSTEMS INC

Address:78 PLAINFIELD PIKE RD

City:PLAINFIELD

State:CT

ZIP:06374

Country:US

Info Phon

e Num:203-564-4078

Emergency Phone Num:203-564-4078

CAGE:62339

=== Contractor Identification ===

Company Name:BST SYSTEM INC

Address:RTE 14A PLAINFIELD PIKE

Box:City:PLAIFIELD

State:CT

ZIP:06374-9607

Country:US

Phone:203-564-4078

CAGE:62399

Company Name:BST SYSTEMS INC

Address:78 PLAINFIELD PIKE ROAD

City:PLAINFIELD

State:CT

ZIP:06374

Country:US

Phone:203-564-4078

CAGE:62339

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Composition/Information on Ingredients
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Ingred Name:ZINC OXIDE (SARA 313) (CERCLA)

CAS:1314

-13-2
RTECS #:ZH4810000
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST

Ingred Name:LEAD OXIDE
CAS:1317-36-8
RTECS #:OG1750000
OSHA PEL:0.05 MG/M3 (MFR)
ACGIH TLV:0.15 MG/M3 (MFR)

Ingred Name:CADMIUM OXIDE (SARA 302/313) (CERCLA)
CAS:1306-19-0
RTECS #:EV1925000
OSHA PEL:0.2 MG/M3 DUST (CD)
ACGIH TLV:0.01 MG/M3 (CD)

Ingred Name:SILVER (SARA 313) (CERCLA)
CAS:7440-22-4
RTECS #:VW3500000
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:POTASSIUM HYDROXIDE (CERCLA)
CAS:1310-58-3
RTECS #:TT2100000
OSHA PEL:2 MG/M3, C
ACGIH TLV:2 MG/M3, C
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:POLYSULFONE
CAS:25154-01-2
OSHA PEL:N/K
ACGIH TLV:N/K

Ingred Name:POLYTETRAFLUOROETHYLENE; (TEFLON (TAB INSULATORS))
CAS:116-14-3
RTECS #:KX4025000
OSHA PEL:N/K
ACGIH TLV:N/K

Ingred Name:SPILL PROC:USED). NEUTRALIZE W/WEAK ACID SOLUTION (VINEGAR, BORIC ACID) & FLUSH W/WATER.
RTECS #:9999999ZZ

Ingred Name:EXPLAN OF CARCIN:ANNUAL REPORT ON CARCINOGENS,

1994:ANTICIPATED TO BE CARCINOGEN.
RTECS #:9999999ZZ

Ingred Name:EYE PROT:& FULL LENGTH FACESHIELD .
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:CONT W/CAUSTIC LIQ MAY CAUSE SERIOUS
BURNS TO HUMAN TISS. OVEREXP OF CADMIUM OXIDE MAY CAUSE IRRIT OF

NOSE & THROAT. DELAYED RXN OF COUGH, CHEST PAIN, SWEATING, CHILLS,
SHORTNESS OF BREATH & WEAK MAY DEVELOP. IN SEV CASES, DEATH MAY
OCCUR.LEAD OXIDE INGEST MAY CAUSE NAUS, VOMIT, HDCHS, DIZZ, GI
IRRIT.(EFTS OF OVEREXP)

Explanation of Carcinogenicity:CADMIUM OXIDE:IARC MONOGRAPHS, ON EVAL
OF CARCIN RISK OF CHEMS TO MAN, VOL 58, PG 119, 1993:GRP 1. NTP 7TH
(ING 9)

Effects of Overexposure:HLTH HAZ:CHRONIC EFTS RESULTING FROM LOW LEVEL
EXPOS TO LEAD COMPONENTS MAY INCL ANEM

IA, KIDNEY DMG, IMPAIRED
EYESIGHT & LEAD BUILD-UP IN CNS (PARTICULARLY THE BRAIN). ACTIVATED
CELLS/BATTERY MAY BE FIRE HAZ IF EXTERNALLY SHORTED. NOTE:LEAD
APPEARS ON NAVY LIST OF OCCUP CHEM REPRO HAZ. SEEK CONSULTATION
FROM (SUPDAT)

Medical Cond Aggravated by Exposure:PRE-EXISTING KIDNEY, RESPIRATORY,
PROSTATE & BLOOD SYSTEMS MAY BE AGGRAVATED.

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

First Aid:INHAL:REMOVE FROM EXPOSURE - GET MEDICAL ATTENTION

SKIN:REMOVE CONTAMINATED CLOTHING & WASH W/LARGE AMOUNTS OF WATER.
GET MEDICAL ATTENTION. EYES:FLUSH W/WATER FOR AT LEAST 15 MINUTES
INCLUDING UNDER EYELIDS. GET MEDICAL ATTENTION. INGEST:DRINK
PLENTY OF WATER & FRUIT JUICE. DO NOT INDUCE VOMITING. GET PROMPT
MEDICAL ATTENTION.

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

Extinguishing Media:USE EXTINGUISHING MEDIA FOR SURROUNDING FIRE.
Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTE

CTIVE
EQUIPMENT .

Unusual Fire/Explosion Hazard:FIRE MAY LIBERATE TOX PB & CD FUMES AS WELL AS HAZ FLOURINE COMPONENTS, INCOMPLETE BURNING OF POLYSULFONE MAY RELS CARBON DIOXIDE; CONT OF KOH (SUPP DATA)

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

Spill Release Procedures:PROT CLTHG & EQUIP MUST BE WORN BY CLEAN-UP PERS. CONTAIN SPILLAGE/LEAKAGE IN SUITABLE CNTNR/CONTAIN IN HOLDING AREA. DO NOT ALLOW DRAINAGE TO SEWER, STREAMS/STORM CONDUITS. REMO

VE SOLIDS W/CLEAN SHOVEL & VACUUM LIQ (SUITABLE ABSORB MAY BE(ING 8)

Neutralizing Agent:WEAK ACID SOLUTION (VINEGAR, BORIC ACID).

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

Handling and Storage Precautions:AVOID DIRECT SKIN CONTACT W/KOH. TO REDUCE ELECTROCUTION RISK ALL ASSOCIATED TOOLS SHOULD BE INSULATED.

Other Precautions:DRY BATTERIES TO BE STORED AT TEMPS BTWN 0-40F (OPTIMUM). WET BATTERIES NOT REQD FOR 30 DAYS/LONGER SHOULD BE DISCHARGED AS PER

MFR'S OPERATING PROCS & STORED AT TEMPS BTWN

0-40F. CAUTION:ACTIVATED BATTERY MAY PROVE A FIRE HAZ IF (SUPDAT)

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

Respiratory Protection:NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN . NONE REQUIRED.

Ventilation:PROVIDE ADEQUATE VENTILATION TO MEET TLV REQUIREMENTS (LOCAL EXHAUST &/OR MECHANICAL (GENERAL).

Protective Gloves:RUBBER GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGLES(ING 10)

Other P

Protective Equipment:EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA . RUBBER OR PLASTIC - IMPERVIOUS &/OR (SUPDAT)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

MFR'S TRADE NAME/PART NO:LEAD AND CADMIUM. EXPLO HAZ:(THE ELECTROLYTE) W/METALS CAN RELS HYDROGEN GAS. HAZ DECOMP PROD:WHEN TEFLON BURNS. EFTS OF OVEREXP:APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST INFO & SAFE HNDLG & EXPOS INFO . OTHER PREC:EXTERNALLY

SHORTED. OTHER PROT EQUIP:WATER PROOF CLTHG/EQUIP.

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

Appearance and Odor:CELL - A RECTANGULAR PLASTIC CUBE OF AMBER COLOR
W/MULTIPLE ELECTRODES VISIBLE.

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

Stability Indicator/Materials to Avoid:YES
HYDROGEN PEROXIDE, AMINES, REDUCING AGENTS, MOLTEN ALKALI METALS,
ALUMINUM & TIN (KOH ONLY).

Stability Condition to Avoid:AVOID STORAGE TEMPS GREATER THAN
90F.

Hazardous Decomposition Products:AT TEMPS >962C, AG*2O FUME MAY BE
EVOLVED; KOH & METALS MAY LIBERATE H*2 GAS, HYDROGEN FLOURIDE MAY
BE FORMED (SUPDAT)

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

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL, STATE & LOCAL LAWS &
REGULATIONS. SPENT (USED) BATTERIES SHOULD BE COLLECTED FOR
PRECIOUS METALS RECLAMATION.

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