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Product ID:BA-5599/U, LITHIUM SULFUR DIOXIDE BATTERY MSDS Date:08/20/1991 FSC:6135 NIIN:01-069-8575 Status Code:A **MSDS Number: CJTBS** === Responsible Party === Company Name: BALLARD BATTERY SYSTEMS CORP Address:1164 WEST 15TH STREET City:NORTH VANCOUVER Country:BC Info Ph one Num:604-986-4104 Emergency Phone Num:604-986-4104 CAGE:0E1R2 === Contractor Identification === Company Name: EAGLE-PICHER ENERGY PRODUCTS CORP Address:13136 82A AVENUE Box:City:SURREY, V3W 9Y6 State:BC Country:US Phone:604-543-4350 CAGE:0E1R2

Ingred Name:LITHIUM METAL CAS:7439-93-2 RTECS #:OJ5540000 Fraction by Wt: 1.7% Other REC Limits:NONE SPECIFIED

Ingred Name:SULFUR DIOXIDE (SARA III) CAS:7446-09-5 RTECS #:WS4550000 Fraction by Wt: 16% Other REC Limits:NONE SPECIFIED OSHA PEL:5 PPM/5 STEL ACGIH TLV:2 PPM/5 STEL; 9293

Ingred Name:ACETONITRILE (SARA III) CAS:75-05-8 RTECS #:AL7700000 Fraction by Wt: 6% Other REC Limits:NONE SPECIFIED OSHA PEL:40PPM/60 STEL ACGIH TLV:40PPM/60STEL; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Heal

th Hazards Acute and Chronic:ACUTE: 10-20 PPM IRRITATING; 100 PPM DANGEROUS; ABOVE 400 PPM LIFE THREATENING. CHRONIC: RHINITIS.

Explanation of Carcinogenicity:NONE OF THE HAZARDOUS INGREDIENTS ARE

LISTED AS CARCINOGENIC TO HUMANS BY IARC, NTP OR OSHA.

Effects of Overexposure:EYE AND RESPIRATORY IRRITATION, DRY THROAT AND COUGHING.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:FOR SU LFUR DIOXIDE EXPOSURE; REMOVE TO VENTILATED AREA. CONSULT PHYSICIAN.

Extinguishing Media:FOR BURNING BATTERIES USE CLASS D EXTINGUISHERS; LITH-X, POWDERED GRAPHITE; MET-L-X.

Fire Fighting Procedures:USE WATER SPRAY OR CARBON DIOXIDE TO LOWER TEMPERATURE & EXTINGUISH FIRES IN PACKING MATERIAL. USE SELF CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUF

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: STORE IN A DRY, WELL VENTILATED AREAS, AWAY FROM FLAMMABLES. Other Precautions: DO NOT INCINERATE, CHARGE OR BREAK OPEN SEALED BATTERIES. Respiratory Protection: FULL FACE CHEMICAL CART RIDGE, BELOW 20 PPM. SELF CONTAINED BREATHING APPARATUS IN ENCLOSED AREAS AND WITH CONCENTRATIONS GREATER THAN 20 PPM.. Ventilation:NONE SPECIFIED BY MANUFACTURER. (GENERAL OR LOCAL) Protective Gloves: USE CHEMICAL RESISTANT GLOVES WHEN HANDLING RUPTURED BATTRIES. Eve Protection: NONE SPECIFIED BY MANUFACTURER. WEAR GOGGLES WHEN HANDLING RUPTURED BATTRIES. Other Protective Equipment: NEEDED FOR RUPTURED BATTERIES ONLY - FOR SULFUR DIOXIDE FIRE. Work Hygienic Practices:WASH HAN DS THOROUGHLY AFTER USE AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health HCC:Z6 Appearance and Odor:SOLID SEALED BATTERIES.

Stability Indicator/Materials to Avoid:YES ACIDS, ALKALIS, WATER, OXIDIZING AGENTS. LITHIUM REACTS WITH WATER TO FORM HYDROGEN. MOIST SULFUR DIOXIDE IS CORROSIVE. Stability Condition to Avoid:LITHIUM REACT S WITH AIR, WATER AND MOST MATERIALS.

Hazardous Decomposition Products: RUPTURED BATTERIES WILL RELEASE SULFUR DIOXIDE.

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

Transport Information: EACH BATTERY CONTAINS LESS THAN 0.5 GRAMS OF LITHIUM. THEREFORE, THESE BATTERIES ARE NOT REGULATED FOR TRANSPORT

ATION, AS PER 49 CFR 173.185 (B)(10), IATA PROV A45, IMDG PAGE 9033A AND AFJM A13.8.5.

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