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BALLARD BATTERY SYSTEMS CORP -- LITHIUM SULFUR DIOXIDE BATTERY BA-5093/U 6135-01-216-9771

============= Product Identification ========================

Product ID:LITHIUM SULFUR DIOXIDE BATTERY BA-5093/U

MSDS Date:08/20/1991

FSC:6135

NIIN:01-216-9771

MSDS Number: BLWHG === Responsible Party ===

Company Name: BALLARD BATTERY SYSTEMS CORP

Address:1164 WEST 15TH STREET

City:NORTH VANCOUVER

Country:BC

Info Phone 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

======= Composition/Information on Ingredients ========

Ingred Name:LITHIUM METAL

CAS:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 1.8%

Other REC Limits: NONE SPECIFIED

Ingred Name: SULFUR DIOXIDE (SARA III)

CAS:7446-09-5

RTECS #:WS4550000

Fraction by Wt:

17% 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

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

Health 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 Measures ==============

First Aid:FOR SULFUR DIOXIDE EXP OSURE: 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: SULFUR DIOXIDE GAS, CARBON MONOXIDE,

======== Accidental Release Measures ==========
Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.
============ Handling and Storage ==============
Handling and Storage Precautions:VENTILATED AREAS EQUIPPED WITH SPRINKLER SYSTEM, AWAY FROM FLAMMABLES. Other Precautions:NONE
====== Exposure Controls/Personal Protection ========
Respiratory Protection:FULL FACE CHEMICAL CAR TRIDGE, BELOW 20 PPM. SELF CONTAINED BREATHING APPARATUS. Ventilation:NONE SPECIFIED BY MANUFACTURER. Protective Gloves:NONE SPECIFIED BY MANUFACTURER. Eye Protection:NONE SPECIFIED BY MANUFACTURER. Other Protective Equipment:NEEDED FOR RUPTURED BATTERIES ONLY - FOR SULFUR DIOXIDE FIRE. Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER USE AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health
========== Physical/Chemical Properties ==========
HC C:Z6 Appearance and Odor:SOLID
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES LITHIUM REACTS WITH WATER TO FORM HYDROGEN. Stability Condition to Avoid:MOIST SULFUR DIOXIDE IS CORROSIVE. Hazardous Decomposition Products:RUPTURED BATTERIES WILL RELEASE SULFUR DIOXIDE.
======== Disposal Considerations ===========
Waste Disposal Methods:ACCORDING TO REGULATIONS.
Disclaimer (provided with this information

LITHIUM OXIDE FUMES ARE HAZARDOUS COMBUSTION PRODUCTS.

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