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FEDERAL PRISON INDUSTRIES INC -- BA5374/U -- 6135-01-455-9646

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

Product ID:BA5374/U MSDS Date:04/26/1999

FSC:6135

NIIN:01-455-9646

Status Code:A

MSDS Number: CKZCF === Responsible Party ===

Company Name: FEDERAL PRISON INDUSTRIES INC

Address: 4 MILES E OF FAIRTON ON HWY 698

Box:99

City:FAIRTON

State:NJ ZIP:08094 Country:US

Info Phone Num:609-453-1177, X4175

Emergenc

y Phone Num:856-453-4175/4179

Preparer's Name: JOHN F. WATSON, JR.

CAGE:0GVJ8

=== Contractor Identification ===

Company Name: UNICOR - FEDERAL PRISON INDUSTRIES INC

Address: 4 MILES E OF FAIRTON ON HWY 698

Box:99

City:FAIRTON

State:NJ ZIP:08094 Country:US

Phone:856-453-1177/4175/4179

CAGE:0GVJ8

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

Ingred Name:LITHIUM CAS:7439-93-2 RTECS #:OJ5540000

= Wt:2.8

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

= Wt:3.5

0

SHA PEL:C 5 MG/M3 ACGIH TLV:5 MG/M3
Ingred Name:GRAPHITE CAS:7782-42-5 RTECS #:MD9659600 = Wt:3.5 OSHA PEL:10 MG/M3 ACGIH TLV:10 MG/M3
Ingred Name:PROPYLENE CARBONATE CAS:108-32-7 RTECS #:FF9650000 = Wt:6.
Ingred Name:DIMETHOXYMETHANOL CAS:646-06-0 RTECS #:JH6760000 = Wt:1.5 Other REC Limits:3 MG/M3
Ingred Name:LITHIUM PERCHLORATE CAS:7791-03-9 = Wt:.3
======================================
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Ca rcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:RISK OCCURS IF BATTERY IS MISUSED, CELL VENTS OR IS OPENED. ACUTE: ELECTROLYTE IS AN IRRITANT, INTACT LITHIUM IS REACTIVE WITH MOISTURE OR WATER WHEN BATTERIES ARE DAMAGED DUE TO MISUSE. CHRONIC: MA Y CAUSE DERMATITIS. SOME COMPONENTS HAVE BEEN SHOWN TO BE TERATOGENIC TO ANIMALS. AVOID DIRECT CONTACT. Effects of Overexposure:EXPOSURE TO SKIN OR EYES MAY CAUSE IRRITATION. INHALATION MAY RESULT IN DIFFICULTY BREATHING.
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First Aid:EYE & SKIN: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION.
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Extinguishing Media:LITH-X, DRY SAND, DRY GRAPHITE POWDER, COVER

Fire Fighting Procedures: ALLOW BATTERY TO COOL WHILE COVERED WITH

EXTINGUISHING MEDIA, REMOVE ADJACENT COM

COMPLETELY

BUSTIBLE MATERIALS IF SAFE
TO DO SO, SCBA REQUIRED.
Unusual Fire/Explosion Hazard:DO NOT USE WATER TO EXTINGUISH FIRES,
CELLS CAN REACT WITH WATER VIOLENTLY. CELLS CAN VENT ELECTROLYTE
IF SUBJECTED TO EXTREME HIGH TEMPERATURES. HEATING ABOVE 354 F
WILL LEAD TO MELTING OF LITHIUM AND REPRESENTS A SEVERE FIRE AND
EXPLOSION HAZARD.

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

Spill Release Procedures: ALLOW BATTERY TO COOL AND VAPOR TO DISSIPATE.

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VOID CONTACT. AVOID INHALATION OF VAPORS. REMOVE SPILLED ELECTROLYTE WITH ABSORBENT MATERIAL. WEAR FULL FACE ORGANIC RESPIRATOR.

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

Handling and Storage Precautions:BATTERIES MAY EXPLODE, IGNITE, OR VENT ELECTROLYTE IF CRUSHED, OPENED, PUNCTURED, OR EXPOSED TO EXTREME TEMPERATURES. DO NOT SHORT CIRCUIT, INSTALL WITH INCORRECT POLARITY, OR ATTEMPT TO RECHARGE. D O NOT INCINERATE.

====== Exposure C ontrols/Personal Protection ========

Respiratory Protection: USE FULL-FACE ORGANIC VAPOR RESPIRATOR IF CELL VENTS.

Ventilation:PROVIDE IF CELLS VENT.

Protective Gloves: NATURAL OR BUTYL RUBBER GLOVES.

Eye Protection: CHEMICAL GOGGLES.

Other Protective Equipment: USE ENCAPSULATING SUIT IF FIRE OCCURS.

Work Hygienic Practices: AVOID EXPOSURE. WASH HANDS AFTER HANDLING.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text: PC: 242 DME: 85

Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Vapor Pres:PC: 0.03 DME: 61

Vapor Density:3.1

Spec Gravity:MNO2: 4.9 GR: 2.4

Evaporation Rate & DME: 4.99 Solubility in Water: PC: MODERATELY SOLUBLE

Appearance and Odor:PC IS ODORLESS AND A COLORLESS LIQUID. LI IS A

SOFT, SILVERY METAL.

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

Stability Indicator/Materials to Avoid:YES DO NOT EXPOSE DAMAGED BATTERIES TO WATER. Stability Condition to Avoi

d:EXPOSURE TO AVOID: EXPOSURE TO EXTREME HIGH TEMPERATURES, DISASSEMBLE, RECHARGE OR SHORTING. Hazardous Decomposition Products:MAY INCLUDE CARBON MONOXIDE AND CAUSTIC LITHIUM OXIDE.
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. BATTERY IS NOT HAZARDOUS WASTE UNDER FEDERAL RCRA REGULATIONS. BATTERY IS HAZARDOUS WASTE IN STATES WHICH USE TECHNIQUES TO CHARAC TER IZE THE WASTE STREAM.

======== MSDS Transport Information ==========

Transport Information: THIS BATTERY CONTAINS