

ELECTROCHEM INDUSTRIES, DIV. OF WILSON GREATBATCH -- LITHIUM OXYHALIDE PRIMARY BATTERY (BCX) -- 6135-01-340-8836

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

Product ID:LITHIUM OXYHALIDE PRIMARY BATTERY (BCX)

MSDS Date:01/19/1993

FSC:6135

NIIN:01-340-8836

MSDS Number: BXFXP

=== Responsible Party ===

Company Name:ELECTROCHEM INDUSTRIES, DIV. OF WILSON GREATBATCH

Address:10000 WEHRLE DR.

City:CLARENCE

State:

NY

ZIP:14031-2033

Country:US

Info Phone Num:716-759-6901

Emergency Phone Num:716-759-6901

CAGE:62713

=== Contractor Identification ===

Company Name:ELECTROCHEM INDUSTRIES, DIV. OF WILSON GREATBATCH

Address:10000 WEHRLE DR.

City:CLARENCE

State:NY

ZIP:14031-2033

Country:US

Phone:716-759-5384

CAGE:62713

Company Name:SMITHS INDUSTRIES AEROSPACE & DEFENSE SYSTEMS INC

Address:4141 EASTERN AVE SE

Box:City:GRAND RAPIDS

State:MI

ZIP:49518-8727

Country:US

Phone:616-241-7000

CAGE:35351

===== Comp

osition/Information on Ingredients =====

Ingred Name:LITHIUM METAL
CAS:7439-93-2
RTECS #:OJ5540000
Other REC Limits:NONE RECOMMENDED

Ingred Name:SULFURYL CHLORIDE
CAS:7791-25-5
RTECS #:WT4870000
Other REC Limits:NONE RECOMMENDED

Ingred Name:CHLORINE (SARA 302/313) (CERCLA)
CAS:7782-50-5
RTECS #:FO2100000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1 PPM
ACGIH TLV:0.5 PPM/1 STEL; 9495
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

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===== Hazards Identification =====
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Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:THIS PRODUCT IS CLASSIFIED AS AN
ARTICLE UNDER OSHA REGULATION 1910.1200.
Explanation of Carcinogenicity:MANUFACTURER GAVE NO INFORMATION ABOUT
CARCINOGENICITY. HMIS DOES NOT EXPECT IT TO BE CARCINOGENIC.
Effects of Overexposure:BURNS TO THE SKIN MAY RESULT FROM THE HEAT
GENERATED BY A SHORT-CIRCUIT.
Medical Cond Aggravated by Exposure:NO
NE SPECIFIED BY MANUFACTURER.

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

First Aid:IN CASE OF ACCIDENTAL INGESTION OF A CELL OR ITS CONTENTS,
OBTAIN PROMPT MEDICAL ADVICE.

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

Extinguishing Media:IF CELLS ARE DIRECTLY INVOLVED IN FIRE, DO NOT USE
WATER, CARBON DIOXIDE, DRY CHEMICAL OR HALON.
Fire Fighting Procedures:A LITH-X (GRAPHITE BASE) FIRE EXTINGUISHER OR
MATERIAL IS THE ONLY RECOMMEN

DED EXTINGUISHING MEDIA FOR FIRES

INVOLVING METAL OR CELLS. AVOID FUME INHALATION.

Unusual Fire/Explosion Hazard:IF A FIRE IS IN ADJACENT AREA, AND CELLS ARE PACKED IN THEIR ORIGINAL CONTAINERS, THE FIRE CAN BE FOUGHT BASED ON FUELING MATERIAL, E.G.,PAPER & PLASTICS.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL BUT PREVENT CONDENSATION ON CELLS OR BATTERIES. ELEVATED TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE.

Other Precautions:IF SOLDERING OR WELDING TO THE TERMINALS OF THE CELL IS REQUIRED, EXERCISE PROPER PRECAUTIONS TO PREVENT DAMAGE TO THE CELL WHICH MAY RESULT IN LOSS OF CELL CAPACITY, SEAL, LEAKAGE, AND/OR CELL EXPLOSION. DO NOT SOLDER TO THE CASE.

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

Respiratory Protection:MFR GAVE NO INFORMATION ON MSDS.

Ventilation:MFR GAVE NO INFORMATION ON MSDS.

Protective Gloves:MFR GAVE NO INFORMATION ON MSDS.

Eye Protection:MFR GAVE NO INFORMATION ON MSDS.

Other Protective Equipment:MFR GAVE NO INFORMATION ON MSDS.

Work Hygienic Practices:MFR GAVE NO INFORMATION ON MSDS.

Supplemental Safety and Health

MECHANICAL CONTAINMENT: ENCAPSULATION (POTTING OF THESE CELLS) WILL NOT ALLOW FOR CELL EXPANSION. SUCH ENCLOSURE CAN RESULT IN HIGH

PRESSURE EXPLOSION FROM HEATING DUE TO INADVERTENT CHARGING OR HIGH TEMPERATURE ENVIRONMENTS (I.E., IN EXCESS OF 100C.)

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

HCC:Z6

NRC/State Lic Num:NONE

Appearance and Odor:MFR GAVE NO INFORMATION ON MSDS.

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

Stability Indicator/Materials to Avoid:YES

JEWELRY, SUCH AS RINGS AND BRACELETS, SHOULD BE REMOVED OR INSULATED FROM BATTERIES TO PRE

VENT SHORT CIRCUITING.

Stability Condition to Avoid: BATTERIES SHOULD ALWAYS BE PACKAGED & TRANSPORTED IN SUCH A MANNER AS TO PREVENT DIRECT CONTACT WITH EACH OTHER.

Hazardous Decomposition Products: SHORT-CIRCUITING WILL CAUSE HEAT AND REDUCE CELL CAPACITY.

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

Waste Disposal Methods: DO NOT INCINERATE OR SUBJECT CELLS TO TEMPERATURES IN EXCESS OF 212F(100C). SUCH ABUSE CAN RESULT IN LOSS OF SEAL, LEAKAGE AND/OR CELL EXPLOSION. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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