

ELECTROCHEM INDUSTRIES,DIV OF WILSON GREATBATCH -- BCX OR HRT LITHIUM OXYHALIDE  
PRIMARY BATTERY -- 6135-01-218-3660

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

Product ID:BCX OR HRT LITHIUM OXYHALIDE PRIMARY BATTERY

MSDS Date:08/18/1986

FSC:6135

NIIN:01-218-3660

MSDS Number: BGWKJ

=== Responsible Party ===

Company Name:ELECTROCHEM INDUSTRIES,DIV OF WILSON GREATBATCH

Address:10000 WEHRLE DR

City:CLARENCE

Sta

te:NY

ZIP:14031-2033

Info Phone Num:716-759-7320

Emergency Phone Num:716-759-2828

Preparer's Name:NONE

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

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

Ingred Name:LITHIUM (LIQUID CATHODE, 0.6 GM PER CELL)

CAS:7439-93-2

RTECS #:OJ5540000

Other REC Limits:NONE RECOMM

ENDED

Ingred Name:THIONYL CHLORIDE

CAS:7719-09-7

RTECS #:XM5150000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 1 PPM

ACGIH TLV:C 1 PPM; 9192

Ingred Name:BROMINE (SARA III)

CAS:7726-95-6

RTECS #:EF9100000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1PPM/0.3 STEL

ACGIH TLV:O.1PPM/0.3 STEL;9192

Ingred Name:CHLORINE (SARA III)

CAS:7782-50-5

RTECS #:FO2100000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:(C) 1 PPM

===== **Hazards Identification**=====

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:PRODUCT HAS ITS HAZARDOUS CHEMICALS  
CONTAINED IN ITS CASE AND UNDER NORMAL USE,NO CONTACT OR HAZARD  
WILL OCCUR. SEE SIGNS & SYMPTOMS AND FIRS AID SHOULD THE CELLS LEAK  
AND THE INTERNALS ARE ENCOUNTERED.  
Effects of Overexposure:LEAKED CONTENTS:BURNING,CORROSIVE IF CONTACTED.  
CHOKING CORROSIVE FUMES.  
Medical Cond Aggravated by Exposure:NONE REPORTED.

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

First Aid:EYE/SKIN CONTACT:FLUSH WITH WATER,GET MEDICAL CARE.  
INHALED:REMOVE TO FRESH AIR,GET MEDICAL CARE. INGESTED:DO NOT  
INDUCE VOMITING.GET IMMEDIATE MEDICAL CARE.

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

Flash Point:NONE  
Extinguishing Media:USE WATER,CARBON DIOXIDE,DRY CHEMICAL IF FIRE IS  
ISOLATED TO PACKING MATERIALS.  
Fire Fighting Procedures:IF CELLS HAVE RUPTURED,USE LITH-X.DO NOT USE  
WATER,CARBON DIOXIDE OR HALOGEN EXTINGUISHERS.  
Unusual Fire/Explosion Hazard:LIBERATES HAZARDOUS MATERIALS IF  
RUPTURES.

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

Spill Release Procedures:IF CONTENTS OF CELL LEAKS, PLACE IN SEALED  
CONTAINER,AVOIDING CONTACT.  
Neutralizing Agent:SODIUM BICARBONATE.

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

Handling and Storage Precautions:USE LITHIUM BATTERY REFRIGERATED  
STORAGE AREA.

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

Respiratory Protection:NONE SHOULD BE NEEDED. IF LEAKING;USE NIOSH/MSHA  
RESPIRATOR FOR ACID VAPORS.  
Ventilation:ORDINARY ROOM VENTILATION.  
Protective Gloves:IMPERVIOUS IF CELL IS LEAKING.  
Eye Protection:SPLASH GOGGLES IF CELL IS LEAKING.  
Work Hygienic Practices:IF CELL IS LEAKING USE VERY STRICT CHEMICAL  
HYGIENE PRACTICE. AVOID ALL CONTACT.  
Supplemental Safe

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

HCC:R2

Solubility in Water:INSOLUBLE

Appearance and Odor:0.538 IN O.D. X 1.921 IN CYLINDER. LIQUID CATHODE.  
0.6 GM LITHIUM PER CELL.

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:CHARGING,SHORT

CIRCUITING,ENCAPSOLATING,HEAT IN EXCESS OF 212F/100C.

Hazardous Decomposition Products:LITHIUM,THIONYL  
CHLORIDE,C

HFLORINE,BROMINE ARE LIBERATED IF CELL RUPTURES.

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

Waste Disposal Methods:DISPOSE I/A/W FEDERAL,STATE,LOCAL REGULATIONS.  
DO NOT INCINERATE.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims

all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.