

WILSON GREATBATCH LTD, ELECTROCHEM BATTERY DIVISION -- LITHIUM BCX AND BCXII BATTERIES -- 6135-01-272-4047

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

Product ID:LITHIUM BCX AND BCXII BATTERIES

MSDS Date:02/01/2000

FSC:6135

NIIN:01-272-4047

MSDS Number: CKXYR

=== Responsible Party ===

Company Name:WILSON GREATBATCH LTD, ELECTROCHEM BATTERY DIVISION

Address:10000 WEHRLE DRIVE

City:CLARENCE

State:NY

ZIP:140

31

Country:US

Info Phone Num:716-759-5384

Emergency Phone Num:716-759-5384

CAGE:0K643

=== Contractor Identification ===

Company Name:BATTERY CENTER THE (404-448-9273)

Address:2245 BUTTON GWINNETT DR

Box:UNKNOW

City:ATLANTA

State:GA

ZIP:30340

Country:US

Phone:770-448-9273

Contract Num:SP0430-01-M-G484

CAGE:00HZ6

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:HOOSIER

INDUSTRIAL SUPPLY

Address:1223 CHICAGO AVE

Box:City:GOSHEN

State:IN

ZIP:46527-0929

Country:US

Phone:219-533-8565

CAGE:0RCD8

Company Name:LINMARR ASSOCIATES INC

Address:4460 N PARK ST

Box:City:LAS VEGAS

State:NV

ZIP:89129-2678

Country:US

Phone:702-655-7800

Contract Num:SP0430-00-M-G255

CAGE:1GX03

Company Name:WILSON GREATBATCH LTD, ELECTROCHEM BATTERY DIVISION

Address:10000 WEHRLE DRIVE

Box:City:CLARENCE

State:NY

ZIP:14031

Country:US

Phone:716-759-5384

CAGE:0K643

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Composition/Info
Information on Ingredients =====

Ingred Name:LITHIUM (LI)

CAS:7439-93-2

RTECS #:OJ5540000

Ingred Name:THIONYL CHLORIDE (SOCL2)

CAS:7719-09-7

RTECS #:XM5150000

ACGIH STEL:C4.9 MG/M3;C1 PPM

Ingred Name:CHLORINE CL2)

CAS:7782-50-5

RTECS #:FO2100000

OSHA PEL:C3 MG/M3;C1 PPM

ACGIH TLV:1.5 MG/M3

ACGIH STEL:2.9 MG/M3;1 PPM

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:BROMINE (BR2)

CAS:7726-95-6

RTECS #:EF9100000

OSHA PEL:0.7 MG/M3;0.1 PPM

ACGIH TLV:0.7 MG/M3

ACGIH STEL:1.3 MG/M3;0.2 PPM

Ingred Name:CARBON
CAS:1333-86-4
RTECS #:FF5800000
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3

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===== 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:NONE.
Explanation of Carcinogenicity:NOT LISTED.
Effects of Overexposure:NONE, UNLESS THE BATTERY RUPTURES,. IN THE
EVENT OF EXPOSURE TO INTERNAL CONTENTS, CORROSIVE FUMES WILL BE
VERY IRRITAT
ING TO SKIN, EYES, AND MUCUS MEMBRANE. OVEREXPOSURE CAN
CAUSE SYMPTOMS OF NON-FIB ROTIC LUNG INJURY AND MEMBRANE
IRRITATION.
Medical Cond Aggravated by Exposure:IN THE EVENT OF EXPOSURE TO
INTERNAL CONTENTS, ECZEMA, SKIN ALLERGIES, LUNG INJURIES, ASTHMA,
AND OTHER RESPIRATORY DISORDERS MAY OCCUR.

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

First Aid:EYE CONTACT: FLUSH WITH RUNNING WATER FOR AT LEAST 15
MINUTES. HOLD EYELIDS APART. SEEK IMMEDIATE MED
ICAL TREATMENT. SKIN
CONTACT: RINSE WITH LARGE AMOUNTS OF RUNNING WATER. IF BURN DEVELOP
SEEK MEDI CAL TREATMENT. INHALATION: REMOVE TO FRESH AIR. IF
BREATHING IS DIFFICULT, ADMINISTER OXYGEN AND SEEK MEDICAL
TREATMENT. INGESTION: SEEK IMMEDIATIAE MEDICAL TREATMENT.

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

Extinguishing Media:LITH-X OR OTHER METAL (CLASS D) FIRE EXTINGUISHER
POWDER.
Fire Fighting Procedures:DO NOT USE WATER, SAND, CARBON DIOXID
E, OR
SODA ASH EXTINGUISHER. WEAR PROTECTIVE BREATHING APPARATUS AND
PROTECTIVE GARMENTS.
Unusual Fire/Explosion Hazard:DO NOT SHORT CIRCUIT, RECHARGE,
OVERDISCHARGE, PUNCTURE, INCINERATE, CRUSH, OR EXPOSE TO
TEMPERATURE ABOVE THE TEMPERATURE OF THE BATTERY.

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

Spill Release Procedures:DO NOT BREATHE VAPORS OR TOUCH LIQUID WITH
BARE HANDS.NEUTRALIZE SPILL WITH SODA LIME, SEAL LEAKING BATTERY
AND SODA LIME

IN PLASTIC BAG AND DISPOSE OF AS HAZARDOUS WASTE.

DISPOSAL CODE: D003.

Neutralizing Agent:SODA LIME.

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

Handling and Storage Precautions:DO NOT SHORT CIRCUIT OR EXPOSE TO TEMPERATURES ABOVE THE TEMPERATURE RATING OF THE BATTERY. DO NOT RECHARGE, OVER DISCHARGE, PUNCTURE, OR CRUSH.

Other Precautions:DO NOT STORE BATTERIES IN HIGH HUMIDITY ENVIRONMENTS FOR LONG PERIODS. HIGH TEMPERATURE STORAGE WILL DEGRADE PERFORMANCE.

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

Respiratory Protection:AS IN ANY FIRE SITUATION, USE SELF CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST: YES. MECHANICAL: N/A. SPECIAL: N/A. OTHER: N/A.

Protective Gloves:IN THE EVENT OF LEAKAGE WEAR GLOVES.

Eye Protection:SAFETY GLASSES ARE RECOMMENDED DURING HANDLING.

Other Protective Equipment:IN THE EVENT OF LEAKAGE, WEAR CHEMICAL APRON.

Supplemental Safety and Health

HERMATICALLY SEALED LIT

HIUM BROMIDE CHLORIDE IN THIONYL BATTERIES (A.I.

ELECTROCHEM BCX AND BCXII SERIES CELL).

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

HCC:Z6

Appearance and Odor:IF LEAKING, SHARP, PUNGENT ODOR

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

Stability Indicator/Materials to Avoid:YES

DO NOT EXPOSE INTERNAL COMPONENTS TO WATER.

Stability Condition to Avoid:FIRE, HEAT OVER THE TEMPERATURE RATING OF THE BATTERY, ELECTRICAL SHORTING, RECHARGING,

DISASSEMBLY.

Hazardous Decomposition Products:SO2, HCL, LIOH, AND H2.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:ALL LITHIUM BCX AND BCXII BATTERIES SHOULD BE
DISPOSED OF BY A PROPER DISPOSAL FACILITY. DISPOSAL PROPER SHIPPING
NAME: WASTE LITHIUM BATTERIES; UN 3090; CLASS 9 (MISCELLANEOUS);
PKG I I; LABELS REQUI RED: MISCELLANEOUS, HAZARDOUS WASTE.

===== MSDS Transpor
t Information =====

Transport Information:US DOT (PER 49 CFR PART 172) AND IATA/ICAO.
PROPER SHIPPING NAME: LITHIUM BATTERIES; UN 3090; CLASS 9
(MISCELLANEOUS); PACKING GROUP: I I. LABELS REQUIRED:
MISCELLANEOUS. OTHER: CARGO AIRCRAFT ONLY.

===== Other Information =====

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