ELECTROCHEM INDUSTRIES, DIV. OF WILSON GREATBATCH -- LITHIUM OXYHALIDE PRIMARY BATTERY (CSC) -- 6135-01-425-9687

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

Product ID:LITHIUM OXYHALIDE PRIMARY BATTERY (CSC)
MSDS Date:05/25/1999
FSC:6135
NIIN:01-425-9687
Status Code:A
MSDS Number: CKYGY
=== 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
-5384
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

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

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

Ingred Name:SULFURYL CHLORIDE (SO2CL2)
CAS:7791-25-5
RTECS #:WT4870000

Ingred Name:CHLORINE (CL2)
CAS:7782-50-5
RTECS #

:FO2100000
OSHA PEL:C3 MG/M3;C1 PPM
ACGIH TLV:1.5 MG/M3;0.5 PPM
ACGIH STEL:2.9 MG/M3;1 PPM
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

========== Hazards Identification ==========

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:THIS PRODUCT IS CLASSIFIED AS AN ARTICLE UNDER OSHA REGULATION 1910-1200 (C). BURNS TO THE SKIN MAY RESULT FROM THE HEAT GENERATED BY A SHORT-CIRCUIT. IMPORTANT NOTE: THE BATTERY CONTAINER SHOULD NO
T BE OPENED OR INCINERATED SINCE THE INGREDIENTS COULD BE HARMFUL UNDER SOME CIRCUMSTANCES IF EXPOSED. LITHIUM IS INCLUDED IN THIS SECTION DUE TO ITS VIGOROUS REACTION WITH WATER FORMING A CAUSTIC HYDRO XIDE.
Effects of Overexposure:SKIN: BURNS FROM HEAT GENERATED BY A SHORT-CIRCUIT. IMPORTANT NOTE: THE BATTERY CONTAINER SHOULD NOT BE OPENED OR INCINERATED SINCE THE INGREDIENTS COULD BE HARMFUL UNDER SOME CIRCUMSTANCES IF EXPOSED .

========== First Aid Mea
sures ==========

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

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

Extinguishing Media:IF INVOLVED IN FIRE, DO NOT USE WATER, CO2, DRY CHEMICAL, HALOGEN EXTINGUISHERS. USE LITH-X (GRAPHITE BASE) EXTINGUISHER OR MATERIAL ONLY FOR FIRES INVOLVING LITHIUM METAL OR CELLS.
Fire Fighting Procedures:USE A LITH-X (GRAPHITE BASE) FIRE EXTINGUISHER OR M
ATERIAL ONLY, FOR FIRES INVOLVING LITHIUM METAL OR CELLS. IF A FIRE IS IN AN ADJACENT AREA, AND CELLS ARE PACKED IN THEIR ORIGINAL CONTAINERS, FIRE C AN BE FOUGHT BASED ON FUELING MATERIAL, E.G; PAPER AND PLASTIC PRODUCTS. AVOID FUME INHALATION.
Unusual Fire/Explosion Hazard:THIS PRIMARY CELL IS NOT DESIGNED TO BE CHARGED OR RECHARGED. MAY CAUSE CELL TO LEAK OR EXPLODE. ENCAPSULATION (POTTING OF THESE CELLS) WILL NOT ALLOW FOR CELL EXPANSION, THAT CAN RESULT IN HIGH-PRESS

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

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

Handling and Storage Precautions:STORAGE: STORE IN COOL PLACE. PREVENT CONDENSATION ON CELLS OR BATTERIES. ELEVATED TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE. HANDLING:THIS CELL IS A PRIMARY CELL AND IS NOT DESIGNED TO BE CHA RGED OR RECHARGED. TO DO SO MAY CAUSE THE CELL TO LEAK O
R EXPLODE. AVOID SHORT-CIRCUITING.
Other Precautions:IF SOLDERING OR WELDING TO THE TERMINALS OR CASE OF THE CELL (BATTERY) IS REQUIRED, EXERCISE PROPER PRECAUTIONS TO PREVENT DAMAGE TO CELL WHICH MAY RESULT IN LOSS OF CELL CAPACITY, SEAL, LEAKAGE, AND/ OR CELL EXPLOSION. DO NOT SOLDER TO CASE. CELLS SHOULD NOT BE SUBJECTED TO EXCESSIVE MECHANICAL SHOC K AND VIBRATION.

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

Work Hygienic Practices:JEWELRY, SUCH
AS RINGS AND BRACELETS, SHOULD BE REMOVED OR INSULATED BEFORE HANDLING THE BATTERIES TO PREVENT INADVERTENT SHORT-CIRCUITING THROUGH CONTACT WITH THE BATTERY TERMINALS.
Supplemental Safety and Health
PART NUMBER:3B24 -TC. BURNS TO THE SKIN MAY RESULT FROM THE HEAT GENERATED BY A SHORT-CIRCUIT.

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

HCC:Z6
Appearance and Odor:CELL (BATTERY), 0.538" DIAMETER X 1.935" OR 1.990" LONG.

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

LITHIUM HAS VIGOROUS REACTION WITH WATER, FORMING A CAUSTIC HYDROXIDE.
Stability Condition to Avoid:DO NOT ENCAPSULATE (POTTING OF THESE CELLS), AND DO NOT CHARGE OR RECHARGE THIS LITHIUM BATTERY.

========== 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 APPROPRIATE FEDERAL, S TATE, AND LOCAL REGULATIONS.

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

Transport Information:BATTERIES SHOULD ALWAYS BE PACKAGED AND
TRANSPORTED IN SUCH A MANNER AS TO PREVENT DIRECT CONTACT WITH EACH
OTHER AND PREVENT INADVERTENT SHORT-CIRCUITING OF BATTERY
TERMINALS.

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