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BATTERY ENGINEERING INC -- LITHIUM THIONYL CHLORIDE CELL,33-60 HT(7136224-7),8908450505 -- 1270-01-309-3077

Product ID:LITHIUM THIONYL CHLORIDE CELL,33-60 HT(7136224-7),8908450505 MSDS Date:05/24/1995 FSC:1270 NIIN:01-309-3077 MSDS Number: BXWMS === Responsible Party === Company Name: BATTERY ENGINEERING INC Address:1636 HYDE PARK AVE **City:HYDE PARK** State:MA ZIP: 02136 Country:US Info Phone Num:617-361-7555 Emergency Phone Num:617-361-7555/800-424-9300(CHEMTREC) CAGE:60289 === Contractor Identification === Company Name: BATTERY ENGINEERING INC Address:100 ENERGY DRIVE Box:City:CANTON State:MA ZIP:02021 Country:US Phone:781-575-0800 CAGE:60289 Company Name: HONEYWELL INC DEFENSE AVIONICS SYSTEMS DIV Address:9201 SAN MATEO NE Box:City:ALBUQUERQUE State:NM ZIP:87113-2227 Country:US Phone:505-828-5000 CAGE:07187

======= Composition/Information on Ingre

dients ==========

Ingred Name:LITHIUM METAL CAS:7439-93-2 RTECS #:OJ5540000 Fraction by Wt: 4% Other REC Limits:NONE RECOMMENDED

Ingred Name:THIONYL CHLORIDE CAS:7719-09-7 RTECS #:XM5150000 Fraction by Wt: 39.5% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 1 PPM ACGIH TLV:C 1 PPM; 9495

Ingred Name:ALUMINUM CHLORIDE, ANHYDROUS CAS:7446-70-0 RTECS #:BD0525000 Fraction by Wt: 6.5% Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM CHLORIDE CAS:7447-41-8 RTECS #:OJ5950000 Fraction by Wt: 2% Other REC Limits:NONE RECOMMENDED

Ingred Name:STAINLESS STEEL Fraction by Wt: 42.5% Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL (SARA 313) (CERCLA) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 0.4% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9495

Ingred Name:PAPER Fraction by Wt: 0.4% Other REC Limits:NONE RECOMMENDED

Ingred Name:CARBON Fraction by Wt: 4.7% Other REC Limits:NONE RECOMMENDED

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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT. Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY/ELECTRICALLY ABUSED. TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT. ACUTE- VAPORS ARE VERY IRRITATING TO EYES, SKIN AND MUCOUS MEMBRANES. LITHIUM MAY CAUSE CHEMICAL BURNS UPON CONTACT WITH SKIN. MAY BE HARMFUL IF IN GESTED. CHRONIC- LUNG INJURY MAY OCCUR. Explanation of Carcinogenicity:CONTAINS NICKEL. Effects of Overexposure:RISK OF EXPOSURE OCCURS ONLY IF CELL IS

MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. IF CELL IS LEAKING: EYES, SKIN AND RESPIRATORY TRACT IRRITATION, THERMAL AND CHEMICAL BURNS

Medical Cond Aggravated by Exposure:ASTHMA, OTHER RESPIRATORY DISORDERS, SKIN ALLERGIES, ECZEMA

First Aid: EMPLOYEE B

REATHING VAPORS FROM VENTING CELL SHOULD BE REMOVED TO FRESH AIR. ANY SKIN OR MUCOUS MEMBRANE CONTACT WITH ELECTROLYTE SHOULD BE FOLLOWED BY FLUSHING WITH LARGE AMOUNT OF WATER. IN CASE OF E YE CONTACT, FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART. SEEK MEDICAL ATTENTION IMMEDIATELY. INGESTION IS UNLIKELY. HOWEVER, CALL PHYSICIAN, IF OCCURED.

Flash Point:NOT RELEVANT

Extinguishing M

edia:DRY LITHIUM CHLORIDE, GRAPHITE POWDER, PYRENE G-1,

LITH-X, CLASS D. DON'T USE WATER, MOIST SAND, CARBON DIOXIDE/SODA ASH

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:TOXIC FUMES MAY BE FORMED.

Spill Release Procedures: IF CELL VENTS OR IS PUNCTURED, VENTILATE AREA WELL. WEAR E

YE AND SKIN PROTECTION. RESPIRATORY PROTECTION MAY BE NECESSARY IN CONFINED SPACES. ABSORB LIQUID WITH SUITABLE MATERIAL SUCH AS DRY SAND OR C LAY. TRANSFER TO CONTAINER FOR LATER DISPOSAL.

Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions: STORE IN COOL, DRY PLACE. AVOID MECHANICAL, PHYSICAL OR ELECTRICAL ABUSE. DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY. STORE BELOW 302F (150C). Other P recautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. DO NOT ATTEMPT TO RECHARGE. DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN. BATTERIES MAY EXPLODE/V ENT IF DISASSEMBLED, CRUSHED/IN FIRE. Respiratory Protection: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE INVOLVED IN A FIRE OR LEAKING IN CONFINED SPACES. FOR SPILL, USE FUL L-FACE RESPIRATOR WITH PARTICULATE/ACID GAS FILTER MASK. Ventilation:LOCAL Protective Gloves: BUTYL RUBBER IF HANDLING LEAKERS Eye Protection: SAFETY GLASSES WHEN HANDLING LEAKERS Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health 

HCC:F8 NRC/State Lic Num:NOT RELEVANT Melt/Freeze Pt:M. P/F.P Text:-221F(LIQ.) Spec Gravity:NOT RELEVANT Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:LITHIUM BATTERY

Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:EXCESSIVE HEAT (TEMPERATURES ABOVE 302F/150C), HIGH HUMIDITY FOR EXTENDED PERIODS, RECHARGING, SHORT CIRCUITS Hazardous Decomposition Products:SULFUR DIOXIDE, HYDR

## OGEN CHLORIDE

Waste Disposal Methods:NEUTRALIZE WITH SODA LIME. DISCHARGED CELLS MAY CONTAIN SIGNIFICANT AMOUNT OF ENERGY. HANDLE WITH CARE. THEY SHOULD BE ELECTRICALLY ISOLATED AND PACKED FOR DISPOSAL. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. WASTE # D003

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