

HITACHI MAXELL,LTD., MAXELL CORP OF AMERICA -- 418-0042 ZENITH,SUPER LITHIUM BATTERY  
-- 6135-01-358-7471

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

Product ID:418-0042 ZENITH,SUPER LITHIUM BATTERY

MSDS Date:09/16/1992

FSC:6135

NIIN:01-358-7471

MSDS Number: BQNLB

=== Responsible Party ===

Company Name:HITACHI MAXELL,LTD., MAXELL CORP OF AMERICA

Address:22-08 STATE ROUTE 208

City:FAIR LAWN

State:NJ

ZIP:074

10

Country:US

Info Phone Num:201-794-5900 OR 201-796-8790

Emergency Phone Num:201-794-5900

Preparer's Name:TOMMY TAKAMURA

CAGE:NO498

=== Contractor Identification ===

Company Name:HITACHI MAXELL,LTD., MAXELL CORP OF AMERICA

Address:22-08 STATE ROUTE 208

Box:City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Phone:201-794-5900 OR 201-796-8790

CAGE:NO498

Company Name:MAXELL CORP OF AMERICA

Address:22-08 STATE ROUTE 208

Box:City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Phone:201-794-5900

CAGE:55151

Compan

y Name:ZENITH DATA SYSTEMS  
Address:HILLTOP ROAD  
Box:1000-G  
City:ST JOSEPH  
State:MI  
ZIP:49085  
Country:US  
Phone:616-982-3200  
CAGE:6X803

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Composition/Information on Ingredients  
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Ingred Name:THIONYL CHLORIDE  
CAS:7719-09-7  
RTECS #:XM5150000  
Fraction by Wt: 35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 1 PPM  
ACGIH TLV:C 1 PPM; 9293

Ingred Name:LITHIUM METAL  
CAS:7439-93-2  
RTECS #:OJ5540000  
Fraction by Wt: 3%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM ALUMIN  
UM CHLORIDE  
Fraction by Wt: 5%  
Other REC Limits:NONE RECOMMENDED

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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:NO EXPOSURE IS NORMALLY EXPECTED.  
ELECTROLYTE IS IMMOBILIZED AND COMPLETELY SECURED WITHIN BATTERY.  
IF BATTERY IS OPENED, ELECTROLYTE WILL BE CORROSIVE TO ALL BODY  
TISSUES, AND WILL CAUSE SEVERE IRRITATION AND BURNS.  
Effects of Overexposure:NO EXPOSURE IS NORMALLY EXPECTED. IF BATTERY IS  
OPENED: IF CONTACTED, SEVERE BURNS AND ULCERATION OF SKIN AND EYES,  
IF INHALED, SEVERE RESPIRATORY IRRITATION, IF INGESTED, SEVERE  
BURNS AND ULCERATION.

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First Aid Measures  
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First Aid:EYES/SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR  
IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. SEE DOCTOR.  
INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OF MAGNESIA. SEE

DOCTOR IMMEDIATELY.

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

Extinguishing Media:USE EXTINGUISHER FOR ALKALINE METAL FIRE. DO NOT USE WATER.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:RELEASES TOXIC, CORROSIVE AND FLAMMABLE GASES IF OPENED, SUCH AS SULFUR DIOXIDE, HYDROGEN CHLORIDE AND HYDROGEN.

===== Accidental Release Measure

s =====

Spill Release Procedures:IF BATTERY IS OPENED, VENTILATE AREA, AVOID CONTACT WITH ELECTROLYTE, WEAR PROTECTIVE GLOVES, PLACE IN CONTAINER FILLED WITH OIL AND WRAP TIGHTLY IN POLYETHYLENE BAG.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL PLACE, AWAY FROM HEAT AND OPEN FLAMES. ELEVATED TEMPERATURE CAN RESULT IN SHORTENED BATTERY LIFE. PRE

VENT CONDENSATION ON BATTERIES.

Other Precautions:DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212F, INCINERATE OR EXPOSE CONTENTS TO WATER. BATTERY CONTENTS ARE A FIRE, EXPLOSION AND SEVERE BURN HAZARD.

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

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED CARTRIDGE RESPIRATOR OR FULL FACE MASK AS APPROPRIATE FOR EXPOSURE OF CONCERN IF BATTERY IS OPENED.

Ventilation:NO SPECIAL REQUIREMENT. VENTILATE IF BATTERY IS OPENED.

Protective Gloves:NONE. RUBBER GLOVES IF BATTERY IS OPENED

Eye Protection:NONE. GOGGLES IF CONTACT IS EXPECTED.

Other Protective Equipment:NONE NORMALLY REQUIRED. PROTECTIVE CLOTHING AS NEEDED IF CONTACT IS EXPECTED.

Work Hygienic Practices:IF CONTACTED WITH OPENED BATTERY, WASH THOROUGHLY AFTER CONTACTED.

Supplemental Safety and Health  
NONE.

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

HCC:F8

Appearance and Odor:SEALED BATTERY.

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

Stability Indicator/Materials to Avoid: YES

DO NOT EXPOSE CONTENTS TO WATER.

Stability Condition to Avoid: DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212F, INCINERATE.

Hazardous Decomposition Products: SULFUR DIOXIDE, HYDROGEN CHLORIDE, HYDROGEN.

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

Waste Disposal Methods: CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. BURY IN GROUND, 3 FEET DEEP. DO NOT INCINERATE. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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