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RACAL COMMUNICATIONS INC -- BATTERY, NONRECHARGEABLE, SS-1600351-1

6135-01-383-0151

Product ID:BATTERY, NONRECHARGEABLE, SS-1600351-1

MSDS Date: 10/28/1994

FSC:6135

NIIN:01-383-0151

MSDS Number: BXWGT === Responsible Party ===

Company Name: RACAL COMMUNICATIONS INC

Address:5 RESEARCH PL

City:ROCKVILLE

State:MD

ZIP:20850-3213

Country:US

Info Phone Num:301-948-4420

Emergency Phone Num:301-948-4420

CAGE:23386

=== Contractor Identification ===

Company Name: BREN-TRONICS INC

Address:10 BRAYTON CT

Box:City:COMMACK

State:NY

ZIP:11725-3104

Country:US

Phone:631-499-5155

CAGE:51828

Company Name: RACAL COMMUNICATIONS INC

Address:5 RESEARCH PL Box:City:ROCKVILLE

State:MD

ZIP:20850-3213

Country:US

Phone:301-948-4420

CAGE:23386

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

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 0.5%

Other REC Limits: NONE RECOMMENDED

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000 Fraction by Wt: 5.6%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG MN/M3 CEILING

ACGIH TLV:5 MG MN/M3

Ingred Name: CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000 Fraction by Wt: 0.04%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9495

Ingred Name: GRAPHITE (TYPE NOT SPECIFIED)

Fraction by Wt: 0%

Other REC Limits: NONE RECOMMENDED

Ingred Name:TEFLON Fraction by Wt: 0.2%

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her REC Limits:NONE RECOMMENDED

Ingred Name:PROPYLENE CARBONATE (PC)

CAS:108-32-7

RTECS #:FF9650000 Fraction by Wt: 0.25%

Other REC Limits: NONE RECOMMENDED

Ingred Name: ETHYLENE CARBONATE (EC)

Fraction by Wt: 0.25%

Other REC Limits: NONE RECOMMENDED

Ingred Name: DIMETHOXY ETHER (DME)

Fraction by Wt: 1.2%

Other REC Limits: NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE (LITFS)

CAS:33454-82-9 Fraction by Wt: 0.1%

Other REC Limits: NONE RECOMMENDED

====== Hazards Id

entification ===========
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY:NTP/IARC/OSHA:NO. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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First Aid:LIQUID ACETONITRILE: IN CASE OF CONTACT W/LIQUID OR VAOR FLUSH W/WATER AND SEEK MED ATTN. TREAT AS FOR ACUTE CYANIDE EX
POSURE. SULFER DIOXIDE GAS IN SMALL QUANTITIES IS NOT LIFE THREATENING. ARE EXPOS ED SHOULD BE EVACUATED AND VENTILATED TO REMOVE SO2.
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Flash Point Method:CC Flash Point:SUPPLEMENT Lower Limits:2.3 PC Upper Limits:2.3 PC Extinguishing Media:WATER. Fire Fighting Procedures:THE PREFERRED PROCEDURE IS TO RAPIDLY COOL BATTERIES AND ADJACENT STRUCTURES WITH WATER. Unusual Fire/Explosion Hazard:CELLS CAN VENT WHEN SUBJEC TED TO EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN FIRE, FIRE FIGHTERS SHOULD USE SCBA.
========= Accidental Release Measures ===========
Spill Release Procedures:AVOID SKIN AND EYE CONTACT OR INHALATION OF VAPORS. EXPOSED LITHIUM FOIL SHOULD BE SUBMERSED IN MINERAL OIL TO STOP OXIDATION, SEALED IN PLASTIC BAGS AND DISPOSED OF IN

0 ACCORDANCE WITH HAZARDOUS MATER IALS LAWS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage ============ Handling and Storage Precautions: LITHIUM BATTERIES ARE MFGL ITEM COMPRISED OF MANY COMPONENTS AND WHEN USED AS INTENDED DO NOT PRESENT A HEALTH OR SAFETY CONCERN. Other Precautions: LITHIUM BATTERIES SHOULD NOT BE RECHARGED, SHORT-CIRCUITED, PUNCTURED OR MUTILATED IN ANY WAY, OR EXPOSED TO TEMPERATURES IN EXCESS OF 85C. ===== Exposure Controls/Personal Protection ========= Supplemental Safety and Health **BOILING PT** ,C:EC 244;PC 242;DME 85. SEC GRAVITY:MNO2 5.03;LI 0.54;DME 0.868;LITFS 0.6;EC 1.322;PC 1.203. VAP PRESS:EC 0.01;PC 0.03;DME 61. VAP DEN:EC 3.04; DME 3.1. SOLUBILTIY:EC/PC MODERATELY SOLUBLE, DME/LITFS COMPLETELY SOLUBLE. ======== Physical/Chemical Properties =========== HCC:F8 Boiling Pt:B.P. Text:SUPPLMENT Melt/Freeze Pt:M.P/F.P Text:180C LI Vapor Pres:SUPPLEMENT Vapor Density:SUPPLEMENT Spec Gravity: SUPPLEMENT Evaporation Rate & Reference: 4.99 (N-BTYL ACE=1) **DME** Solubility in Water:SUPPLEMENTAL Appearance and Odor: SELAED BATTERY PACK CONTAINING 9 LITHIUM CELLS,2.8"X2.8"X1.5", WT=1.1 LBS. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES CONDUCTIVE MATERIALS OR CORROSIVE COMPOUNDS. Stability Condition to Avoid: TERMINALS SHOULD NOT BE EXPOSED TO WATER. ======= Disposal Considerations =========== Waste Disposal Methods: LITHIUM BATTERIES MUST BE CONSIDERED AS A

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DISPOSED OF IN ACCORDANCE WITH LOCAL AND FEDERAL HAZARDOUS MATERIALS DISPOSAL LAWS AND REGULATIONS.

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