

RACAL COMMUNICATIONS INC -- FUSED BATTERY ASSEMBLY ; B4044015 OR 3100424-501 --
6140-01-251-8652

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

Product ID:FUSED BATTERY ASSEMBLY ; B4044015 OR 3100424-501

MSDS Date:11/15/1994

FSC:6140

NIIN:01-251-8652

MSDS Number: BVZKT

=== 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: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:NICKEL (SARA III) AND NICKEL HYDROXIDE (PERCENTAGE IS AS
NICKEL)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 20-30%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG

/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:CADMIUM (SARA III) AND CADMIUM HYDROXIDE (PERCENTAGE IS AS
CADMIUM)

CAS:7440-43-9
RTECS #:EU9800000
Fraction by Wt: 13-15%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3FUME;0.2DUST
ACGIH TLV:0.05 MG/M3 DUST;9192
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:COBALT (SARA III) AND COBALT HYDROXIDE (PERCENTAGE IS AS
COBALT)

CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: 1-2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3
ACGIH TL
V:0.05 MG/M3;DUST 9192

Ingred Name:POTASSIUM HYDROXIDE (SARA III) (PERCENTAGE IS AS DRY
POTASSIUM HYDROXIDE)

CAS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 2-4%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES

IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ELECTROLYTE (POTASSIUM HYDROXIDE) IS CAUSTIC WITH SKIN OR EYES; MAY CAUSE IRRITATION.

Explanation of Carcinogenicity:CONTAINS C [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:ELECTROLYTE EXPOSURE TO SKIN/EYES WILL CAUSE SEVERE IRRITATION. INHALATION OF FUMES MAY CAUSE SEVERE RESPIRATORY IRRITATION.

Medical Cond Aggravated by Exposure:RESPIRATORY ALIMENTS- WITH BURNING

BATTERIES; SKIN CONDITIONS WITH LEAKING BATTERIES. (ADDED BY HMIS)

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

First Aid:IF LIQUID FROM LEAKER COMES IN CONTACT WITH SKIN, REMOVE IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES AND CONTACT A PHYSICIAN.

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

Flash Point:NONE

Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.

Fire Fighting Procedures

:FIRE FIGHTERS SHOULD USE SELF CONTAINED BREATHING APPARATUS. BATTERY/CELLS MAY RELEASE TOXIC FUMES, IF SUBJECT TO FIRE/EXTREME HEAT.

Unusual Fire/Explosion Hazard:MAY BURST WHEN SUBJECT TO EXTREME HEAT. CADMIUM FUMES MAY BE RELEASED DURING BURNING.

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

Spill Release Procedures:SPILL OR LEAK PROCEDURES (PRECAUTIONS FOR SAFE HANDLING & USE) AVOID SKIN OR EYE CONTACT. USE NON FLAMMABLE ABSORBENT MATERIAL FOR CLEANUP.

COORDINATE WITH INSTALLATION SAFETY AND ENVIRONMENTAL OFFICES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT ELECTRICALLY SHORT CIRCUIT. AVOID INCINERATION OR MUTILATION.

Other Precautions:NICAD BATTERIES ARE A MANUFACTURED ITEM COMPRISED OF MANY COMPONENTS AND WHEN USED AS INTENDED DO NOT PRESENT A HEALTH OR SAFETY CONCERN.

=====
===== Exposure Controls/P

Personal Protection =====

Respiratory Protection:IF BATTERIES ARE BURNING USE SCBA. (HMIS)
Ventilation:NONE SPECIFIED BY MANUFACTURER.
Protective Gloves:CHEMICAL RESISTANT GLOVES FOR LEAKERS
Eye Protection:NONE SPECIFIED BY MANUFACTURER.
Other Protective Equipment:CHEMICAL RESISTANT APRON FOR LEAKERS. (HMIS)
Work Hygienic Practices:AVOID SKIN EYE CONTACT WITH ELECTROLYTE. WASH
HANDS AFTER HANDLING BATTERIES. (HMIS)
Supplemental Safety and Health

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

HCC:N1
Appearance and Odor:NICAD BATTERY, CYLINDRICAL CELLS INSIDE CASE. 7.7"L
X 1.0"DIA. MAX. WEIGHT 0.5L
Percent Volatiles by Volume:UNK
Corrosion Rate:UNK

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:FIRE AND EXTREME HEAT. DO NOT SHORT
CIRCUIT OR OVERCHARGE
Hazardous Decomposition Products:WHEN EXPOSED TO FIRE OR EXTREME HEAT,
BATTERIES MAY EMIT TOXIC FUMES

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH ALL
APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. USUALLY MAY BE
DISPOSED OF IN SECURED LANDFILL.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or

implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.