View NSN Online: https://aerobasegroup.de/nsn/1420-01-211-5630

LITTON -- AMPLIFIER TRAVELING WAVE,11448369, (SUP DA) -- 1420-01-211-5630

Product ID: AMPLIFIER TRAVELING WAVE, 11448369, (SUP DA)

MSDS Date:04/15/1989

FSC:1420

NIIN:01-211-5630

MSDS Number: BJJPW === Responsible Party === Company Name:LITTON

Address:960 INDUSTRIAL ROAD

City:SAN CARLOS

State:CA ZIP:94070 Country:US

Info Phone Num:415-591-8411 Emergency Phone Num:41

5-591-8411 CAGE:NO218

=== Contractor Identification ===

Company Name:LITTON

Address:960 INDUSTRIAL ROAD

Box: City: SAN CARLOS

State:CA ZIP:94070 Country:US

Phone:415-591-8411

CAGE:NO218

Company Name: LITTON ELECTRON DEVICES .

Address:960 INDUSTRIAL RD

Box: City: SAN CARLOS

State:CA ZIP:94070 Country:US

Phone:650-591-8411

CAGE:80080

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

Ingred Name: NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000 Other REC Limits:N/K OSHA PEL:1 MG/M ACGIH TLV:1 MG/M3; 9192

Ingred Name: COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000 Other REC Limits:N/K

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits:N/K

OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9192

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH7070000

Other REC Limits:N/K

OSHA PEL:5 MG/M3/10 STEL

ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Nam

e:IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000

Other REC Limits:N/K

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Other REC Limits:N/K

OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

Other REC Limits:N/K

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SAMARIUM

CAS:7440-19-9

Other REC Limits:N/K

OSHA PEL:N/K ACGIH TLV:N/K

Ingre

CAS:7440-10-0 Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K Ingred Name: OTHER RARE EARTHS Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K Ingred Name: EXPLAN OF CARCIN: CARCINOGEN (NTP, 1989). WASTE DISP METH: MFR FOR RECYCLING. RTECS #:9999999ZZ Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K ========== Hazards Identification =============== LD50 LC50 Mixture:N/K Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenici ty:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic: NO KNOWN HAZARDS FOR MAGNETS AS SUPPLIED AS A PART OF MICROWAVE TUBES.PROLONGED SKIN CONTACT WITH NICKEL MAY CAUSE ALLERGIC REACTION IN SENSITIVE INDIVIDUALS. Explanation of Carcinogenicity: NICKEL: SUFF EVID FOR CARCIN IN HUM/ANIM (IARC, 1987). ACGIH A1=CONFIRMED HUM CARCIN (1990). KNOWN TO CAUSE CANCER (SUP DA) Effects of Overexposure:EYES:N/K .SKIN:PROLONGED SKIN CONTACT WITH NICKEL CAN CAUSE ALLERGIC REACTION IN S **ENSITIVE** INDIVIDUALS.INGESTION:N/K .INHALATION:ANY LONGTERM EXPOSURE TO DUSTS EXCEEDING TLV LEVE LS MAY RESULT IN IRRITATION TO THE UPPER RESPIRATORY TRACT. Medical Cond Aggravated by Exposure:PROLONGED SKIN CONTACT WITH NICKEL MAY CAUSE ALLERGIC REACTION IN SENSITIVE INDIVIDUALS. First Aid:EYES/SKIN/INGESTION/INHALATION:N/K. Flash Point:N

d Name:PRASEODYMIUM

Other Protective Equipment:NO SPECIAL PROTECTION REQUIRED FOR MICROWAVE TUBES AS SHIPPED

Work Hygienic Practices: USE GOOD PERSONAL HYGIENE.

Supplemental Safety and Health

PART NO:PN L5710-51.MP:>1325C,2417F.EXPLO HAZ:INTENSELY & MAY REIGNITE AFTER FIRE IS EXTING.RARE EARTH METAL POWDERS (SAMARIUM COBALT) BURN VIGOROUSLY IN HALOGEN/ORG ATMOS.MATLS TO AVOID:W/ STRONG OXI DIZING AGENTS,ACIDS,OXYGEN & HALOGENATED HYDROCARB.EXPLAN OF CARCIN:(CAL PROP 65,1989).SUSPECTED HUMAN (SEE ING 11)

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

Boiling Pt:B

.P. Text:N/K Melt/Freeze Pt:M.P/F.P Text:SEE SUPP Decomp Temp:Decomp Text:N/K Spec Gravity: 7.0-8.5, WATER=1 Solubility in Water: NOT SOLUBLE Appearance and Odor: METALLIC SILVER/LIGHT GRAY METAL WITH NO ODOR. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES POWDERS FROM MAGNETS ARE INCOMPATIBLE W/ STRONG OXIDIZING AGENTS.RARE EARTH MAGNET POWDERS ARE IMCOMPATIBLE (SEE SUPP) Stability Condition to Avoid: AVOID ANY GENERATION OF AIR **BORNE DUST** WHICH COULD CREATE FIRE & EXPLOSION HAZARD. Hazardous Decomposition Products: RARE EARTH (SAMARIUM COBALT) MAGNET POWDER WILL LIBERATE HYDROGEN WHEN EXPOSED TO WATER. Conditions to Avoid Polymerization: WILL NOT OCCUR. ======= Disposal Considerations ============

Waste Disposal Methods:DISP MUST BE IAW FED,STATE & LOC REGS.COORDINATION W/ SUPPORTING INSTALLATION &/OR MACOM ENVIRONMENTAL COORDINATION PRIOR TO DISP IS REC TO DETERMINE APPROP DI

SP METH .RECYCLING OF MAGNETS USED IN MICROWAVE TUBES IS REC.RETURN TO (SEE ING 11)

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.