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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)

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