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LITTON SYSTEMS INC/ELECTRONIC DEVICES DIV -- LITTON PN L5839 ALNICO MAGNETS 5960-01-094-9540

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

Product ID:LITTON PN L5839 ALNICO MAGNETS

MSDS Date:04/15/1989

FSC:5960

NIIN:01-094-9540

MSDS Number: BNKMB === Responsible Party ===

Company Name: LITTON SYSTEMS INC/ELECTRONIC DEVICES DIV

Address:960 INDUSTRIAL RD

City:SAN CARLOS

State:CA

ZIP:94070-4116

Country:US

Inf

o Phone Num: (415) 591-8411

Emergency Phone Num: (415) 591-8411

CAGE:80080

=== Contractor Identification ===

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: ALUMINUM (POWDER)

CAS:7429-90-5

RTECS #:BD0330000 OSHA PEL:15 MG/CUM

ACGIH TLV:10 MG/CUM (DUST)

Ingred Name:NICKEL (SOLUBLE)
INTENDED CHANGE (IC)

INTENDED CHANGE (IC

CA

S:7440-02-0

RTECS #:QR5950000

Other REC Limits: 1 MG/CUM

OSHA PEL:1 MG/CUM

ACGIH TLV:0.05 MG/CUM IC (A1)

Ingred Name:COBALT

CAS:7440-48-4

RTECS #:GF8750000

Other REC Limits: 0.05 PPM

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name: COPPER (DUST & MIST), BRONZE POWDER

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits:1 MG(CU)/M3 (DUST) OSHA PEL:0.1 MG(CU)/M3 (FUME) ACGIH TLV:0.2 MG/M3 (FUME)

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

Ingred Name:TITANIUM DIOXIDE, TITANIUM(IV) OX

IDE, TIO2

CAS:13463-67-7

RTECS #:XR2275000

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:RED IRON OXIDE/IRON (III) OXIDE/FERRIC OXIDE/YELLOW FERRIC OXIDE/METAL OXIDE/YELLOW IRON OXIDE/IRON OXIDE PIGMENT/IRON

CAS:1309-37-1

RTECS #:NO7400000

OSHA PEL:10 MG/M3 (FE)

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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

IRRITATION. SKIN: ALLERGIC REACTION
Explanation of Carcinogenicity:NONE Effects of Overexposure:INHALATION: UPPER RESPIRATORY TRACT IRRITATION. SKIN: ALLERGIC REACTION.
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First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES.
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Extinguishing Media:DRY NITROGEN OR ARGON OR SMOTHER W/DRY CHEM ICAL
Fire Fighting Procedures:DON'T USE WATER OR HALON AGENTS ON FIRE. POWDER MAY REIGNITE AFTER FIRES ARE EXTINGUISHED. BURNS RAPIDLY & INTENSELY.
Unusual Fire/Explosion Hazard:FINE METAL POWDERS PRODUCED BY DRY GRINDING/MACHINING MAY CAUSE EXPLOSION. DRY POWDER OR GRINDING SLUDGE MAY IGNITE SPONTANEOUSLY IN AIR OR OXYGEN.
============ Handling and Storage ==============
Other Precautions:DON'T GRIND, CUT, FILE, SAW OR OTHERWISE CREATE DUST FROM MAGNETI C MATERIAL USED AS A PART OF MICROWAVE TUBES.
====== Exposure Controls/Personal Protection ========
Work Hygienic Practices:USE GOOD PERSONAL HYGIENE Supplemental Safety and Health
========= Physical/Chemical Properties ==========
Melt/Freeze Pt:M.P/F.P Text:2417F Spec Gravity:7.0-8.5 Solubility in Water:INSOLUBLE Appearance and Odor:METALLIC SILVER/LIGHT GREY METAL, ODORLESS.
========= Stability and Reactivity Data =========
Stability Ind

Health Hazards Acute and Chronic: INHALATION: UPPER RESPIRATORY TRACT

icator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, ACIDS, OXYGEN & HALOGENATED HYDROCARBONS.
Hazardous Decomposition Products:RARE EARTH (SAMARIUM COLBALT) MAGNET
POWDER WILL LIBERATE HYDROGEN WHEN EXPOSED TO WATER.

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

Waste Disposal Methods:RECYCLING OF MAGNETS USED IN MICROWAVE TUBES IS RECOMMENDED. RETURN TO MANUFACTURER FOR RECYCLING, OTHERWISE DISPOSE IN ACCORDANCE W/FEDERAL, STATE & LOCAL REGULATIONS.

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