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

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 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)** 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

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

| Health Hazards Acute and Chronic:INHALATION: UPPER RESPIRATORY TRACT IRRITATION. SKIN: ALLERGIC REACTION Explanation of Carcinogenicity:NONE |
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| Effects of Overexposure:INHALATION: UPPER RESPIRATORY TRACT IRRITATION. SKIN: ALLERGIC REACTION. |
| ====================================== |
| First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES. |
| ====================================== |
| Extinguishing Media:DRY NITROGEN OR ARGON OR SMOTHER W/DRY CHEM |
| 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. |
| ====================================== |
| 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 |
| ====================================== |
| 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 Ind

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.

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.

Dis

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