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Product ID:LITTON PN L5839 SAMARIUM COBALT MAGNETS MSDS Date:04/15/1989 FSC:5960 NIIN:01-094-9540 MSDS Number: BNKMC === Responsible Party === Company Name: LITTON SYSTEMS INC/ELECTRONIC DEVICES DIV Address:960 INDUSTRIAL RD **City:SAN CARLOS** State:CA ZIP:94070-4 116 Country:US Info 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: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:SAMARIUM CAS:

7440-19-9

Ingred Name:PRASEODYMIUM CAS:7440-10-0

Ingred Name:OTHER RARE EARTHS

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

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 DO T Rpt Qty:5000 LBS

Ingred Name:ZIRCONIUM CAS:7440-67-7 RTECS #:ZH7070000 OSHA PEL:5 MG/CUM ACGIH TLV:5 MG/CUM

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 Effects of Overexposure:INHALATION: UPPER RESPIRATORY TRACT IRRI TATION.

SKIN: ALLERGIC REACTION.

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES.

Extinguishing Media:DRY NITROGEN OR ARGON OR SMOTHER W/DRY CHEMICAL 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 PROD

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

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