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

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

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

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

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:

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

======= Haz	zards
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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

GRINDING/MACHINING MAY CAUSE EXPLOSION. DRY POWDER OR GRINDING SLUDGE MAY IGNITE SPONTANEOUSLY IN AIR OR OXYGEN.
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Other Precautions:DON'T GRIND, CUT, FILE, SAW OR OTHERWISE CREATE DUST FROM MAGNETIC 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 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.
======== Disposal Considerations ==========
Waste Disposal Methods:RECYCLING OF MAGNETS USED IN MICROWAVE TUBES IS

UCED BY DRY

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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