

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

Info Phone Num:(415) 591-8411

Emergency Phone Num:(415) 591-8411

CA

GE: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)

CAS: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) OXIDE, TIO2
CAS:13463-67-7
RTECS #:XR2275000
OSHA PEL:15 MG/M3 TDU
ST
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
Health Hazards Acute and Chronic:INHALATION: UPPER RESPIRATORY T
RACT
IRRITATION. SKIN: ALLERGIC REACTION
Explanation of Carcinogenicity:NONE
Effects of Overexposure:INHALATION: UPPER RESPIRATORY TRACT IRRITATION.
SKIN: ALLERGIC REACTION.

===== First Aid Measures =====

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES.

===== Fire Fighting Measures =====

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 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 MAGNETIC MATERIAL USED AS A PART OF MICROWAVE TUBES.

===== Ex
posure 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 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.

Disclaimer (provided with this information by the compiling agency)

s):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.