

ALLIED-SIGNAL INC,DBA ALLIED-SIGNAL AEROSPACE CO -- SPARK GAP, TG100 --
5840-00-841-7229

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

Product ID:SPARK GAP, TG100

MSDS Date:03/24/1999

FSC:5840

NIIN:00-841-7229

Status Code:A

MSDS Number: CJDNF

=== Responsible Party ===

Company Name:ALLIED-SIGNAL INC,DBA ALLIED-SIGNAL AEROSPACE CO

Address:118 HWY 35

City:EATONTOWN

State:NJ

ZIP:07724-3444

Country:US

Emergency

Phone Num:800-707-4555

Preparer's Name:DSCR-VBA (HMIS)

CAGE:04795

=== Contractor Identification ===

Company Name:HONEYWELL INTL INC HARDWARE PRODUCTS GROUP DIV

Address:120 S WEBER DR

Box:City:CHANDLER

State:AZ

ZIP:85226

Country:US

Phone:480-592-3687

Contract Num:N0010483XB043

CAGE:04795

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

Ingred Name:NICKEL-63

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

ACGIH TLV:5 MG/M3

ACGIH STEL:10 MG/M3

===== Haz

ards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:NUMBERS OF GAPS STORED TOGETHER CAN YIELD RADIATION DOSE RATE IN EXCESS OF 2MR/HR PER SURAFCE OF STORAGE CONTAINERS. THEREFORE RECOMMEND NO MORE THAN SIX(6) NICKEL-63 GAPS BE HANDLED BY ONE PERSON AT ONE TIME UNLESS SHIELDED BY RADIATION ABSORBING MATERIALS OR SEPERATED BY AT LEAST 3 INCHES F

FROM OTHER SPARK GAP.

Explanation of Carcinogenicity:RADIOACTIVE

Effects of Overexposure:BECAUSE OF THE AMOUNT OF NICKEL-63 CONTAINED IN THE DEVICE THIS SECTION IS NOT APPLICABLE.

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

First Aid:NOT APPLICABLE.

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NICKEL-63 IN THE SOLID STATE PRESENTS NO FIRE OR EXPLOSIO

N HAZARD.

Unusual Fire/Explosion Hazard:NONE SPECIFIED.

===== Accidental Release Measures =====

Spill Release Procedures:NOT APPLICABLE.

===== Handling and Storage =====

Other Precautions:ALL TUBES CONTAIN AN EXEMPT QUANTITY OF NI-63 AS DEFINED BY U.S. NRC. PHYSICAL DATA: BETA RAY ENERGY-67 KEV; GAMMA RAYS-NONE; BETA RAY RANGE IN AIR-ABOUT 5 CM (2 INCHES). THE MICROCURIE AMOUNTS OF NI- 63 REPRESENT AN INSIGNIFICANT EXTERNAL HAZARD.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE SPECIFIED.

Ventilation:NONE SPECIFIED.

Protective Gloves:RUBBER GLOVES IF DEVICE IS BROKEN.

Eye Protection:NONE SPECIFIED.

Other Protective Equipment:PROTECTIVE CLOTHING, IF DEVICE IS BROKEN.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

MSDS GENERATED BY HMIS TECHNICIAN. MANUFACTURER NO LONGER PRODUCES THIS ITEM. NO RECORDS ON FILE FOR

SPARK GAPS MANUFACTURER IN 1982.

===== Physical/Chemical Properties =====

HCC:A3

Melt/Freeze Pt:=1260.C, #####F

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GRAYISH TO BLACK PLATING ON ELECTRONIC DEVICE.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NICKEL-63 REACTS WITH STRONG MINERAL ACIDS TO FORM HYDROGEN GAS.

Stability Condition to Avoid:NONE SPECIFIED.

Hazardous Decomposition Products:NO

NE SPECIFIED.

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

Waste Disposal Methods:WHEN DISPOSED OF IN SMALL QUANTITIES, THE RADIOACTIVE SPARK GAPS PRESENT AN INSIGNIFICANT RADIATION HAZARD. HOWEVER, NORMAL HANDLING OF SHOP TRASH MAY RESULT IN HAZARDOUS ACCUMULATION IN THE DUMPING AREA. THEREFORE, FEDERAL OR STATE REGULATIONS GOVERNING THE DISPOSITION OF RADIOACTIVE MATERIAL MUST BE FOLLOWED.

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