

SHELLER-GLOBE CORP,VICTOREEN INSTRUMENTS DIV -- 5962, ELECTRON TUBE --
5960-00-188-6592

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

Product ID:5962, ELECTRON TUBE

MSDS Date:10/08/1991

FSC:5960

NIIN:00-188-6592

MSDS Number: BDHKN

=== Responsible Party ===

Company Name:SHELLER-GLOBE CORP,VICTOREEN INSTRUMENTS DIV

Address:6000 COCHRAN RD

City:SOLO

State:OH

ZIP:44139-3395

Country:US

Info Phone Num:216-248-93

00

Emergency Phone Num:216-248-9300

Preparer's Name:ROBERT A. JUCIUS

CAGE:JO931

=== Contractor Identification ===

Company Name:SHELLER-GLOBE CORP,VICTOREEN INSTRUMENT DIV.

Address:6000 COCHRAN RD

Box:City:CLEVELAND

State:OH

ZIP:44139-3395

Country:US

CAGE:JO931

Company Name:VICTOREEN INC

Address:6000 COCHRAN RD

Box:City:SOLO

State:OH

ZIP:44139-3395

Country:US

Phone:216-248-9300

CAGE:63060

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

Ingred Name:NICKEL (SARA III) PRODUC

T YIELDS 0.05 TO 0.10 MICROCURIES

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

===== Hazards Identification =====

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:METAL PRODUCTS IN THE NATURAL STATE DO NOT PRESENT AN INHALATION, INGESTION OR CONTACT HAZARD, H

OWEVER,

OPERATIONS SUCH AS BURNING, WELDING, SAWING, BRAZING AND GRINDING MAY RELEASE FUMES/DUSTS WHICH MAY PRESENT HEALTH HAZARDS IF TLV'S ARE EXCEEDED. THE RADIOACTIVE MATERIAL IN THE DEVICES REPRESENT NO SIGNIFICANT HAZARD

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS

CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:BECAUSE OF THE AMOUNT OF NICKEL-63 CONTAINED IN THE PRODUCT THIS SECTION IS NOT CONSIDERED APPLICABLE BY MANUFACTURER.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:NONE SPECIFIED BY MANUFACTURER.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR CHEMICAL PROTECTIVE SUIT WITH SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:SOME OF MATERIAL MAY BURN. CONTAINER MAY EXPLODE IN HEAT OF FIRE.

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

Spill Release Procedures:HANDLE BROKEN DEVICE WITH GLOVES AND FORCEPS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:SHIELD ACCORDING TO EMITTED RADIATION. PROTECT FROM FILM/FILM PLATES. KEEP CONTAINED

RS CLOSED. STORE IN
AREA FOR RADIOACTIVE MATERIALS.

Other Precautions:THE MICROCURIE QUANTITIES OF NICKEL-63 REPRESENT NO
SIGNIFICANT EXTERNAL EXPOSURE HAZARD SINCE THE LOW ENERGY BETAS
EMITTED CANNOT PENETRATE THE OUTER SKIN LAYER. THE MATERIAL IS
CONTAINED IN AN INER T SEALED VESSEL.

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

Respiratory Protection:NONE SPECIFIED BY MANUFACTURER.
Ventilation:PROVIDE MECHANICAL (GENERAL/LOCAL EXHAUST) VENTILATION TO

MAINTAIN CONCENTRATIONS 2300F,>126
Vapor Pres:NOT GIVEN
Vapor Density:NOT GIVEN
Spec Gravity:ABOUT 7
Evaporation Rate & Reference:NIL
Solubility in Water:NEGLIGIBLE
Appearance and Odor:GRAYISH TO BLACK PLAITING ON ANODES
Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES
REACTS WITH STRONG ACIDS
Stability Condition to Avoid:PHYSICAL DAMAGE
Hazardous Decomposition Products:HYDROGEN GAS, METALLIC D
UST/FUMES

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

Waste Disposal Methods:CONTROLLED DISPOSAL REQUIRED-IN ACCORDANCE WITH
DOD REGULATIONS AND FEDERAL,STATE & LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
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.