

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:SOLON

State:OH

ZIP:44139-3395

Country:US

Info Phone Num:216-248-930

0

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:SOLON

State:OH

ZIP:44139-3395

Country:US

Phone:216-248-9300

CAGE:63060

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

Ingred Name:NICKEL (SARA III) PRODUCT

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, HO

WEVER,

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

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:EXTINQUISH WITH AGENT SUITABLE FOR SURROUNDING
FIRE.

Fire Fighting Procedures:WEAR CHEMICAL PROTECTIVE SUIT WITH SELF
CONTAINED BREA

THING 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 CONTAINER
S 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 INNER 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: NEGIGIBLE

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 DU

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

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

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