

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:OLON

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:OLON

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, HOWEVER,  
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 Condition 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

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 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 DU

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

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

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