

VICTOREEN INC -- SPARK GAP -- 5840-01-217-2470

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

Product ID:SPARK GAP

MSDS Date:10/08/1991

FSC:5840

NIIN:01-217-2470

MSDS Number: CCSWN

=== Responsible Party ===

Company Name:VICTOREEN INC

Address:6000 COCHRAN RD

City:OLON

State:OH

ZIP:44139-3395

Country:US

Info Phone Num:216-248-9300

Emergency Phone Num:216-248-9300

Preparer's Name:ROBERT A. JUCIUS

CAGE:63060

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Contractor Identification ===

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-63

CAS:7440-02-0

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

Reports of Carcinogen

icity: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, SUCH OPERATIONS SUCH AS BURNING, SAWING, BRAZING & GRINDING MAY RELEASE FUMES/DUSTS WHICH MAY PR ESENT HEALTH HAZARDS IF TLVS EXCEEDED. THE RADIOACTIVEMATERIAL IN THE DEVICES REPRESENT NO SIGNIFIGANT RISK.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:BECAUSE OF THE AMO  
UNT OF NICKEL-63 CONTAINED IN

THE DEVICES THIS SECTION IS NOT APPLICABLE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== 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 EXPLOSION HAZARD.

Unusual Fire/Explosion Haz

ard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:NOT APPLICABLE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:ALL TUBES CONTAIN AN EXEMPT QUANTITIY OF NI-63 AS  
DEFINED BY USNRC. PHYSICAL DATA:BETA RAY ENERGY-67 KEV;GAMMA  
RAYS-NONE;BETA RAY RANGE IN AI

R-ABOUT 5 CM (2 INCHES).THE

MICROCURIE AMOUNTS OF NI-63 REP RESENT AN INSIGNIFIGANT EXTERNAL  
HAZARD.

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

Respiratory Protection:NONE NORMALLY REQUIRED.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

THE RADIOACTIVE MATERIAL IS CONTAINED IN AN INERT SEALED VESSEL TO  
OBVIATE EXTERNAL OR INTERNAL HAZARDS. THE ALLOWABLE EXPOSURE LIMITS  
FOR NI-63 ARE OVER 1000 TIMES THE MATERIAL C

ONTAINED IN ONE OF TH E  
DEVICES. THE CRITICAL ORGAN FOR NI-63IS THE BONE. THE ELIMINATION  
RATE IS 800 DAY HALF-LIFE BY ELIMINATION THRU URINE

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

HCC:A2  
Melt/Freeze Pt:M.P/F.P Text:2300F,1260C  
Spec Gravity:7  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:GRAYISH TO BLACK PLATING ON ELECTRONIC DEVICE.

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

Stability Indicator/Materials to Avoid:YES  
NI-63  
REACTS WITH STRONG MINERAL ACIDS TO FORM HYDROGEN GAS.  
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products:METALLIC DUSTS/FUMES MAY BE PRODUCED  
DURING WELDING, BURNING, GRINDING & POSSIBLY MACHING. REFER TO ANSI  
Z49.1.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL ENVIRONMENTAL REGULATIONS.

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