

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

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Product Identification
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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:SOLO
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:SOLO
State:OH
ZIP:44139-3395
Country:US
Phone:216-248-9300
CAGE:63060

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Composition/Information on Ingredients
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Ingred Name:NICKEL-63
CAS:7440-02-0
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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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 PRESENT HEALTH HAZARDS IF TLVS EXCEEDED. THE RADIOACTIVE MATERIAL IN THE DEVICES REPRESENT NO SIGNIFICANT RISK.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

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

THE DEVICES THIS SECTION IS NOT APPLICABLE.

Medical Condition Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:NOT APPLICABLE.

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===== 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 Hazard:

NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:NOT APPLICABLE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:ALL TUBES CONTAIN AN EXEMPT QUANTITY OF NI-63 AS DEFINED BY USNRC. 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.

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===== 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

CONTAINED IN ONE OF THE
DEVICES. THE CRITICAL ORGAN FOR NI-63 IS 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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