

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-744/7440-18-8.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

7440-18-8

Code:

M

RTECS:

Code:

X

Name:

RUTHENIUM

Other REC Limits:

N/K

OSHA PEL:

N/K

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

N/K

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

WEAR APPROVED RESPIRATORS.

Ventilation:

MECHANICAL/LOCAL EXHAUST VENTILATION FILTRATION SHOULD BE EMPLOYED.

Protective Gloves:

RECOMMENDED

Eye Protection:

GOOGLES

Other Protective Equipment:

Equipment PROTECTIVE CLOTHING

Work Hygienic Practices:

N/K

Supplemental Safety and Health:

EACH INGOT WEIGHT: 5-8 GMS. (APPROX). 5

Health Hazards Data

LD50/LC50 Mixture:

N/K

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

INHALATION: DUST MAY CAUSE RESPIRATORY TRACT IRRITATION, PULMONARY HYPERSENSITIVITY, & FREE SILICA AT HIGH LEVELS OVER MANY YEARS MAY CAUSE SILICOSIS. SKIN: DUST MAY CAUSE DERMATITIS.

Explanation Of Carcinogenicity:

NONE

Signs And Symptoms Of Overexposure:

INHALATION: DUST MAY CAUSE RESPIRATORY TRACT IRRITATION, PULMONARY HYPERSENSITIVITY, & FREE SILICA AT HIGH LEVELS OVER MANY YEARS MAY CAUSE SILICOSIS. SKIN: DUST MAY CAUSE DERMATITIS.

Medical Cond Aggravated By Exposure:

DERMATITIS

First Aid:

EYES: FLUSH THOROUGHLY W/RUNNING WATER. SKIN: FLUSH & SCRUB THOROUGHLY W/SOAP & WATER. INHALATION: REMOVE PERSON TO FRESH AIR, ASSIST BREATHING WITH ADDITIONAL OXYGEN IF NECESSARY. CONTACT PHYSICIAN.

Spill Release Procedures:

REMOVE DUST BY VACUUMING OR WET SWEEPING TO PREVENT POWDERING IN THE AIR. USE CONTAINERIZED DISPOSAL.

Neutralizing Agent:

N/K

Waste Disposal Methods:

4 NO SPECIAL PRECAUTIONS ARE REQUIRED FOR BULK (SOLID) SHAPES, SUCH AS INGOTS.

Handling And Storage Precautions:

AVOID CONTACT W/SKIN. GRIND, POLISH, & MELT THIS ALLOY ONLY IN THE PRESENCE OF ADEQUATE VENTILATION.

Other Precautions:

N/K

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

Flash Point Text:

N/K

Autoignition Temp:

N/A

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

N/K

Fire Fighting Procedures:

N/K

Unusual Fire/Explosion Hazard:

THE ALLOYS ARE FIRE & EXPLOSION RESISTANT.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:

N/K

Melt/Freeze Pt:

2438-2488F

Decomp Temp:

N/A

Decomp Text:

N/K

Vapor Pres:

N/K

Vapor Density:

N/K

Volatile Org Content %:

N/K

Spec Gravity:

8.32

VOC Pounds/Gallon:

N/K

PH:

N/K

VOC Grams/Liter:

N/K

Viscosity:

N/P

Evaporation Rate & Reference:

N/K

Solubility in Water:

INSOLUBLE

Appearance and Odor:

PLATINUM COLOR, NO ODOR

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

HIGH TEMPERATURES

Materials To Avoid:

N/K

Hazardous Decomposition Products:

FUMES

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/K

Toxicological Information

Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information

Other Information:

N/P

Information:

N/P

Information: