

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-744-7440-58-6.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

7440-58-6

Code:

M

RTECS:

MG4600000

Code:

M

Name:

HAFNIUM

Other REC Limits:

N/K

OSHA PEL:

0.5 MG/CUM

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

0.5 MG/CUM

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

4 USE OSHA APPROVED RESPIRATORS AS NECESSARY FOR FUMES & DUSTS.

Ventilation:

LOCAL EXHAUST: WHERE METAL FUMES OR DUSTS ARE PRODUCED.

Protective Gloves:

REQUIRED

Eye Protection:

GOGGLES

Other Protective Equipment:

Equipment PROTECTIVE CLOTHING & EQUIPMENT

Work Hygienic Practices:

USE GOOD HOUSECLEANING PRACTICES TO PREVENT ACCUMULATION OF DUST & FOLLOW CLEANING TECHNIQUES.

Supplemental Safety and Health:

N/K

Health Hazards Data

LD50LC50Mixture:

N/K

Route Of Entry Inds - Inhalation:

YES

Skin:

NO

Ingestion:

NO

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

INHALATION: DUSTS & FUMES CONTAINING NICKEL, CHROMIUM, COBALT, & OTHER METALS CAN BE TOXIC IF TLV IS EXCEEDED. ALLERGIC ASTHMA. SKIN: IRRITATION.

Explanation Of Carcinogenicity:

SEE INGREDIENTS. 3

Signs And Symptoms Of Overexposure:

N/K

Medical Cond Aggravated By Exposure:

SENSITIVITY

First Aid:

INHALATION: REMOVE TO FRESH AIR. BEGIN ARTIFICIAL RESPIRATION IF NOT BREATHING. SKIN: BRUSH OFF SKIN & CLOTHING. WASH W/SOAP & WATER. REMOVE METALLIC PARTICLES & CLEANSE WOUNDS. EYES: FLUSH W/WATER. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures:

SOLID FORM: RETURN TO ORIGINAL CONTAINER/RECYCLE. DUST: WEAR PROTECTIVE CLOTHING/EQUIPMENT. KEEP AIRBORNE DUST TO A MINIMUM. SWEEP/VACUUM. WET DOWN AREA. DON'T FLUSH INTO DRAINS/WATERWAYS. PLACE IN METAL/PLASTIC DRUM, SEAL, SAVE FOR RECLAMATION.

Neutralizing Agent:

N/K

Waste Disposal Methods:

DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

Handling And Storage Precautions:

DON'T EAT, DRINK, OR SMOKE IN AREAS WHERE METAL DUSTS OR FUMES ARE GENERATED.

Other Precautions:

THIS PRODUCT CONTAINS TOXIC CHEMICALS (NICKEL, CHROMIUM, COBALT). IF THESE MATERIALS ARE RELEASED FROM THE ARTICLE THROUGH METAL FINISHING/WELDING/MELTING/DISSOLVING THE RELEASES MAY BE SUBJECT TO EMEGENCY & ANNUAL RELEASE REPORTING.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:**Flash Point Text:**

N/K

Autoignition Temp:**Autoignition Temp Text:**

N/A

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

SAND, DOLOMITE, GRAPHITE POWDER OR SODIUM CHLORIDE

Fire Fighting Procedures:

SOLID METAL: NOT IGNITABLE.

Unusual Fire/Explosion Hazard:

MODERATE FIRE & EXPLOSIVE HAZARD WHEN EXPOSED TO HEAT, FLAME, ELECTRIC CURRENT, OR STATIC ELECTRICITY (DUST & POWDER).

Physical/Chemical Properties

HCC:**NRC/State IC No:****Net Prop WT For Ammo:****Boiling Point:****B.P. Text:**

N/K

Melt/Freeze Pt:**Melt/Freeze Pt:****N/K/F.P. Text:****Decomp Temp:****Decomp Temp:****N/K/Decomp Temp:****Vapor Pres:**

N/K

Vapor Density:

N/K

Volatile Org Content %:**Volatile Org Content %:****Spec Gravity:**

N/K

VOC Pounds/Gallon:**PH:**

N/K

VOC Grams/Liter:**VOC Grams/Liter:****Viscosity:**

N/P

Evaporation Rate & Reference:

N/K

Solubility in Water:

INSOLUBLE

Appearance and Odor:

SOLID FORM, DARK GRAY & LUSTROUS IN COLOR.

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

HEAT, FLAME, ELECTRIC CURRENT, OR STATIC ELECTRICITY

Materials To Avoid:

STRONG OXIDIZING AGENTS, SUCH AS CONCENTRATED NITRIC ACID

Hazardous Decomposition Products:

N/K

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:

N/P

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