

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-744/7440-03-1.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
7440-03-1
Code:
M

RTECS:

Code:
X

Name:
COLUMBIUM

Other REC Limits:
N/R

OSHA PEL:
5 MG/CUM
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
5 MG/CUM
Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:
USE ADEQUATE GENERAL VENTILATION & LOCAL EXHAUST AT THE ARC.

Protective Gloves:
WELDER'S GLOVES

Eye Protection:
10 HELMET/FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:
Equipment WEAR PROTECTIVE CLOTHING.

Work Hygienic Practices:
N/P

Supplemental Safety and Health:
N/P

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:
ACUTE:MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS,NAUSEA,DRYNESS OR IRRITATION OF NOSE,THROAT OR EYES,TIGHTNESS IN CHEST,FEVER & ALLERGIC REACTIONS. CHRONIC:MAY LEAD TO SIDEROSIS & IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION.

Explanation Of Carcinogenicity:
NICKEL & CHROMIUM ARE LISTED AS CARCINOGENIC.

Signs And Symptoms Of Overexposure:
SEE "HEALTH HAZARDS".

Medical Cond Aggravated By Exposure:
NONE STATED

First Aid:
REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,ADMINISTER OXYGEN,IF BREATHING HAS SPED,APPLY ARTIFICIAL RESPIRATOR; GET MEDICAL HELP.

Spill Release Procedures:
SWEEP UP OR SCOOP UP.

Neutralizing Agent:
N/P

Waste Disposal Methods:
DISCARD ANY PRODUCT RESIDUE,DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

Handling And Storage Precautions:
9 USE EXHAUST SYSTEM TO CLEAR WELDING FUMES.

Other Precautions:
N/P

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
N/R

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
USE PROPER MEDIA FOR SURROUNDING FIRE.

Fire Fighting Procedures:
NEED TO WEAR PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:
WELDING ARC & SPARKS CAN IGNITE COMBUSTIBLES.

Physical/Chemical Properties

HCC:
N1

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/K

Melt/Freeze Pt:

M.P/F.P Text:
N/K

Decomp Temp:

Decomp Text:
N/K

Vapor Pres:
N/R

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
N/K

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
N/R

Solubility in Water:
INSOLUBLE

Appearance and Odor:
SOLID WIRE OR ROD.

Percent Volatiles by Volume:
0

Corrosion Rate:
N/R

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
NONE STATED

Materials To Avoid:
NONE

Hazardous Decomposition Products:
IT IS COMPLEX CAN NOT BE CLASSIFIED EASILY,DEPENDING ON THE ELECTRODE USED,COATING CONTAMINANTS IN THE ATMOSPHERE.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
N/P

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

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