

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-120/12070-12-1.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

12070-12-1

Code:

M

RTECS:

Code:

X

Name:

TUNGSTEN CARBIDE

Other REC Limits:

NONE SPECIFIED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:

ACGIH TLV: 5 MG/M3 (AS W)

Code:

1 OSHA STEL:

ACGIH TLV:

5 MG/M3 (AS W)

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

USE AN APPROPRIATE NIOSH APPROVED RESPIRATOR IF AIRBORNE DUST CONCENTRATIONS EXCEED APPROPRIATE PEL OR TOV. ALL APPROPRIATE REQUIREMENTS SET FORTH IN 29CFR1910.134 SHOULD BE MET.

Ventilation:

USE LOCAL EXHAUST VENTILATION WHICH IS ADEQUATE TO LIMIT PERSONAL EXPOSURE TO RESPIRABLE AIRBORNE SUT TO LESS THAN TLV.

Protective Gloves:

PROTECTIVE GLOVES OR BARRIER CREAM

Eye Protection:

SAFETY GLASSES/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:

Equipment NONE SPECIFIED BY MANUFACTURER

Work Hygienic Practices:

WASH HANDS THOROUGHLY AFTER HANDLING, BEFORE EATING OR SMOKING. WASH EXPOSED SKIN AT THE END OF WORK SHIFT.

Supplemental Safety and Health:

DO NOT SHAKE CLOTHING, RAGS OR OTHER ITEMS TO REMOVE DUST. DUST SHOULD BE REMOVED BY WASHING OR VACUUMING (WITH APPROPRIATE FILTERS) THE CLOTHING, RAGS OR OTHER ITEMS. PERIODIC MEDICAL EXAMINATIONS AR E RECOMMENDED FOR INDIVIDUALS REGULARLYEXPOSED TO DUST OR MIST.

Health Hazards Data

LD50/LC50 Mixture:

NOT PROVIDED BY MANUFACTURER

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

SKIN CONTACT: CAN CAUSE IRRITATION OR AN ALLERGIC SKIN RASH DUE TO COBLAT SENSITIZATION. EYE CONTACT: CAN CAUSE IRRITATION. INGESTION: SIGNIFICANT AMOUNTS OF COBALT MAY CAUSE BLOOD, HEART AND OTHER ORGAN PROBLEMS. INHALATION: RESPIRATORY IRRITATION, TRANSIENT OR PERMANENT RESPIRATORY DISEASE, OCCUPATIONAL ASTHMA.

Explanation Of Carcinogenicity:

NONE OF THE COMPONENTS OF THIS CARBIDE HAVE BEEN IDENTIFIED AS KNOWN OR SUSPECTED CARCINOGENS BY NTP, IARC OR OSHA.

Signs And Symtoms Of Overexposure:

INHALATION: COUGHING, WHEEZING, SHORTNESS OF BREATH, CHEST TIGHTNESS, WEIGHT LOSS, LUNG SCARRING, DEATH. SKIN: IRRITATION, RASH. EYES: IRRITATION. INGESTION: BLOOD, HEART AND OTHER ORGAN PROBLEMS.

Medical Cond Aggravated By Exposure:

CERTAIN PULMONARY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.

First Aid:

INHALATION: REMOVE FROM EXPOSURE AND SEEK MEDICAL ATTENTION. SKIN CONTACT: THOROUGHLY WASH AFFECTED AREA WITH SOAP AND WATER AND ISOLATE FROM EXPOSURE. IF IRRITATION OR RASH PERSIST, SEEK MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. INGESTION: DILUTE WITH A LARGE AMOUNT OF WATER, INDUCE VOMITING AND SEEK MEDICAL ATTENTION.

Spill Release Procedures:

VENTILATE AREA OF SPILL. CLEAN UP USING METHODS WHICH AVOID DUST GENERATION SUCH AS VACUUM (WITH APPROPRIATE FILTER TO PREVENT AIRBORNE DUST LEVELS WHICH EXCEED PEL OR TLV), WET DUST MOP OR WET CLEAN- UP.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

DISPOSE OF IN ACCORDANCE WITH APPROPRIATE GOVERNMENT REGULATIONS. MAY BE SOLD AS SCRAP FOR RECLAIM.

Handling And Storage Precautions:

MAINTAIN GOOD HOUSEKEEPING PROCEDURES TO PREVENT DUST ACCUMULATION DURING GRINDING. AVOID DUST INHALATION AND DIRECT SKIN CONTACT WITH DUST.

Other Precautions:

CLEANUP USING METHODS WHICH AVOID DUST GENERATION, SUCH AS VACUUM (WITH APPROPRIATE FILTER TO PREVENT AIRBORNE DUST LEVELS WHICH EXCEED THE PEL OR TLV), WET DUST MOP OR WET CLEAN-UP.

Fire and Explosion Hazard Information

Flash Point Method:

N/P 3

Flash Point:

YES

Flash Point Text:

NONE

Autoignition Temp:

N/K

Autoignition Temp Text:

N/K

Lower Limits:

UNKNOWN

Upper Limits:

UNKNOWN

Extinguishing Media:

FOR POWDER FIRES USE DRY SAND, DRY DOLOMITE, DRY GRAPHITE POWDER

Fire Fighting Procedures:

FOR A POWDER FIRE CONFINED TO A SMALL AREA, USE A RESPIRATOR APPROVED FOR DUSTS AND FUMES. FOR A LARGE FIRE, FIRE FIGHTERS SHOULD WEAR SCBA.

Unusual Fire/Explosion Hazard:

DUSTS MAY PRESENT A FIRE OR EXPLOSION HAZARD UNDER RARE FAVORING CONDITIONS OF PARTICLE SIZE, DISPERSION AND STRONG IGNITION SOURCE. NOT NORMAL.

Physical/Chemical Properties

HCC:

N/A

NRC/State LC No:

N/A

Net Prop WT For Ammo:

N/A

Boiling Point:

919F, 287C

Melt/Freeze Pt:

N/A

M/P/F/P Text:

N/K

Decomp Temp:

N/A

Decomp Text:

UNKNOWN

Vapor Pres:

N/A

Vapor Density:

N/A

Volatile Org Content %:

N/A

Spec Gravity:

9.5-15.5

VOC Pounds/Gallon:

N/A

VOC Grams/Liter:

N/A

Viscosity:

UNKNOWN

Reactivity Rate & Reference:

N/A

INSOLUBLE IN Water:

YES

DARK GREY METAL, NO ODOR:

DARK GREY METAL, NO ODOR

Percent Volatiles by Volume:

0

Corrosion Rate:

UNKNOWN

Conditions To Avoid:

UNKNOWN

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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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