

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-744/7440-50-8.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

7440-50-8

Code:

M

RTECS:

GL5325000

Code:

M

Name:

COPPER (SARA 313) (CERCLA)

Other REC Limits:

N/K

OSHA PEL:

0.1MG/M3 FUME;1 DUST

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

0.2 MG/M3 FUME

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

4 NONE NORMALLY REQUIRED UNDER GENERAL VENT. IF EXPOSURE LEVELS ARE UNKNOWN, IF LEVELS EXCEED TLV/PEL, OR IF EFFECTS OCCUR, USE NIOSH APPROVED DUST/MIST RESPIRATOR I/A/W APPLICABLE HEALTH & SAFETY REGULATIONS & MFR'S RECOMMENDATIONS.

Ventilation:

GENERAL VENTILATION USUALLY ADEQUATE.

Protective Gloves:

CLOTH OR SYNTHETIC GLOVES.

Eye Protection:

ANSI APPROVED CHEM WORKERS GOGGS (FP N).

Other Protective Equipment:

Equipment EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA (FP N). CLEAN CLOTHING TO COVER SKIN.

Work Hygienic Practices:

WASH HANDS BEFORE EATING.

Supplemental Safety and Health:

EFSTS OF OVEREXP:METAL OF CURED CMPD/COATED SURF. RPTD/PRNG OVEREXP TO METAL DUST MAY CAUSE METAL-FUME FEVER, METALLIC TASTE & DISCOLORATION OF SKIN & HAIR. REFER TO PROT EQUIP SECTION FOR APPROP PROT MEASURES.

Health Hazards Data

LD50/LC50 Mixture:

NONE SPECIFIED BY MANUFACTURER.

Route of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute and Chronic:

ACUTE: EYE CONT: SLIGHTLY IRRIT BUT DOES NOT INJURE TISS. AT ELEVATED TEMPS MAY CAUSE IRRIT. SKIN CONT: PRNG/RPTD CONT MAY CAUSE IRRIT. INHAL: AT ELEVATED TEMPS MAY CAUSE IRRIT OF RESP TRACT. INHAL OF DUST AT LEVELS ABOVE RELS MAY CAUSE METALLIC/SWEET TASTE, IRRIT OF PHARYNX & POSS ULCERATION W/ HLTH HAZ: PERFORATION OF NASAL SEPTUM. INGEST: HARMFUL IF SWALLOWED. MOD TOX. IRRIT TO MOUTH, THROAT & STOM, W/ NAUS. CHRONIC: RPTD & PRNG INHAL OF GRAPHITE/CARBON DUSTS MAY CAUSE PULM FIBROSIS, EMPHYSEMA &

Explanation of Carcinogenicity:

SILICA, CRYSTALLINE-QUARTZ: IARC MONOGRAPHS, VOL 68, 1997: GRP 1. NTP 7TH ANNUAL RPT ON CARCINS, 1994: ANTIC TO BE CARCIN.

Signs and Symptoms of Overexposure:

THIS PROD CONTAINS ENCAPSULATED SILICON DIOXIDE (QUARTZ, SILICA). NO EXPOS TO FREE RESPIRABLE SILICA IS ANTIC DURING NORMAL USE OF THIS PROD. INHAL OF FREE RESPIRABLE SILICA MAY CAUSE SILICOSIS/OTHER SERIOUS DELAYED LUNG INJURY. SILICA MAY BE RELS BY GRINDING/MACHINING OF COATED MATLS. USE NIOSH APPROVED DUST/MIST RESP WHEN GRINDING/MACHINING COATING/COATED ITEMS. THIS PROD: CONTAINS ENCAPSULATED METAL POWDER WHICH CONTAINS COPPER & ZINC. NO EXPOS TO FREE METAL POWDER IS ANTIC DURING NORM

Medical Cond Aggravated By Exposure:

PREEXISTING PULMONARY & DERMATOLOGICAL DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO HAZARDOUS COMPONENTS.

First Aid:

EYES: IMMED FLUSH W/ PLENTY OF WATER FOR AT LST 15 MINS. GET MED ATTN, IF IRRIT PERSISTS. SKIN: WASH W/ SOAP & WATER. GET MED ATTN IF IRRIT DEVELS/PERSISTS. INHAL: REMOVE TO FRESH AIR & GET MED ATTN IF COUGH/OTHER SYMPS DEVEL.

INGEST: DO NOT INDUCE VOMIT. GIVE VICTIM GLASS OF WATER/MILK. CALL MD/POIS CTL CTR IMMED. NEVER GIVE ANYTHING BY MOUTH TO UNCON PERS. NOTES TO MD: NO INFORMATION.

Spill Release Procedures:

RECLAIM CLEAN MATERIAL. CONTAMINATED MATERIAL SHOULD BE SWEPT OR SHOVED INTO APPROPRIATE WASTE CONTAINER & DISPOSED OF I/A/W APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

REVIEW ALL CURRENT FEDERAL, STATE & LOCAL REGULATIONS REGARDING HEALTH & DISPOSAL FOR APPROPRIATE DISPOSAL PROCEDURES. INCINERATION PREFERRED.

Handling and Storage Precautions:

AVOID PROLONGED OR REPEATED CONTACT W/SKIN. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY. STORE AWAY FROM HEAT. KEEP OUT OF THE REACH OF CHILDREN.

Other Precautions:

FOLLOW GENERAL INDUSTRIAL SAFETY PRACTICES DURING USE. DO NOT REUSE EMPTY CONTAINERS W/OUT COMMERCIAL CLEAN OR RECONDITION. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED.

Fire and Explosion Hazard Information

Flash Point Method:

PMCC

Flash Point:

N/A

Flash Point Text:

300F, 149C

Autoignition Temp:

N/A

Lower Limits:

N/A

Upper Limits:

N/A

Extinguishing Media:

CO₂, DRY CHEMICAL, FOAM, WATER FOG.

Fire Fighting Procedures:

USE NIOSH APPROVED SCBA & FULL PROT EQUIP(FP N). USE WATER TO COOL EXPOS CNTNS. WATER STREAM DIRECTED INTO FIRE MAY CAUSE FROTHING W/SUBSEQUENT SPREAD OF FLAMES.

Unusual Fire/Explosion Hazard:

FINELY DIVIDED DUST IN AIR MAY PRESENT EXPLO HAZ. PVNT DUST BUILDUP. CLD CNTNS MAY RUPTURE/EXPLODE (DUE TO PRESS BUILD UP) WHEN EXPOS TO EXTREME HEAT IRRIT & TOX GASES/FUMES MAY BE GENERATED BY THERMAL DECOMP/COMBUST.

Physical/Chemical Properties

HC:

NRC/State Lic No:

Net Prop WT For Ammo:

N/A

Boiling Point:

N/A

M.P./F.P. Text:

>50F, >28C

Melt/Freeze Pt:

N/A

Decomp Temp:

N/A

Decomp Text:

N/K

Vapor Pres:

N/A

Vapor Density:

H2/ AIR

Volatile Org Content %:

N/A

Spec Gravity:

1.3017

VOC Pounds/Gallon:

N/A

PH: N/A

VOC Grams/Liter:

N/A

Viscosity:

N/P

Evaporation Rate & Reference:

SLOWER THAN BUTYL ACETATE

Solubility in Water:

INSOLUBLE

Appearance and Odor:

HIGH VISCOSITY, COPPER COLORED PASTE; SLIGHT PETROLEUM ODOR.

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

PROLONGED EXPOSURE TO HEAT.

Materials To Avoid:

STRONG LEWIS/MINERAL ACIDS, STRONG BASES/OXIDANTS, NITRATES, NITrites, CHLORINATED HYDROCARBONS, CHLORIDES, PALLADIUM, SELENIUM, MANGANESE, MAGNESIUM + POTASSIUM CHLORATE, SODIUM CARBONATE, SULFATES, DIBORANE, OXIDES OF CARBON, VARIOUS HYDROCARBONS.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT RELEVANT

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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