

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-131/1314-61-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
1314-61-0

Code:
T

RTECS:
WW5855000

Code:
T 13

Name:
TANTALUM (TA) % low Wt: .1 Code: M % high W

Other REC Limits:
N/P

OSHA PEL:
0.2 MG/M3;0.1 PPM

Code:
T

OSHA STEL:
N/P

Code:

ACGIH TLV:

CO.1 PPM

Code:

M

ACGIH STEL:

CO.20 MG/M3;CO.1 PPM

Code:

T

Control Measures

Respiratory Protection:

NIOSH APPROVED APPROP DUST/MIST/FUME RESP SHOULD BE USED TO AVOID EXCESSIVE INHAL OF PARTICULATES. IF EXPOS LIMS ARE REACHED/EXCEEDED, USE NIOSH APPROVED EQUIP. -- EFTS OF OVEREXP:DEBILITATING SYMPS INDICATED. HLTH HAZ DATA PRESENTED HERE IS BASED ON EXPOS TO CARBON BLACK, NOT C AS IT IS FOUND IN THIS PROD. CHRONIC INHAL EXPOS TO CARBON BLACK (OTHER PROT EQUIP)

Ventilation:
USE W/ADEQ VENT TO MEET EXPOS LIMS LISTED IN INGS SECTION. -- OTHER PREC:NITROGEN OXIDES, INFRARED RADIATION & ULTRAVIOLET RADIATION.

Protective Gloves:

IMPERVIOUS GLOVES (FP N) (FOR WELDING, BURNING OR HANDLING OPERATIONS).

Eye Protection:

ANSI APPROVED CHEMICAL WORKERS GOGGLES AND FULL LENGTH FACESHIELD (FP N).

Other Protective Equipment:

Equipment 17/EYE WASH DELUGE SHWR MTG ANSI DESIGN CRITERIA (FP N). OTHER PROT CLTHG/EQUIP AS REQD DEPENDING ON OPERATIONS SFTY CODES. -- RESP PROT: MAY RSLT IN TEMPORARY/PERM DMG TO LUNGS HEART. (HYGIENE PRACT)

Work Hygienic Practices:

WASH W/SOAP WATER. -- OTHER PROT EQUIP:PNEUMOCONIOSIS HAS BEEN FOUND IN WORKERS ENGAGED IN PROD OF CARBON BLACK. SKIN CNDTS SUCH AS INFLAMM OF HAIR FOLLICLES ORAL MUCOSAL LESIONS HAVE(CNDTS (STAB))

Supplemental Safety and Health:

EXPLAN OF CARCIN BE HUMAN CARCIN. CHROMIUM (VI) OXIDE (1:3):IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 49, 1990:GRP 1. NTP 8TH ANNUAL RPT ON CARCINS, 1998:KNOWN TO BE HUMAN CAR CIN. HUMAN:LUNG TUMORS. COBALT:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 52, PG 363, 1991:GRP 2B.

Health Hazards Data

LD50/LC50 Mixture:

N/P

Route of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

ACUTE:EXCESS EXPOS TO ALL METALLIC FUMES & DUSTS MAY RSLT IN IRRIT OF EYES, NOSE & THROAT. ALSO HIGH CONCS OF FUMES & DUSTS OF FE-OXIDE, MN & CU MAY RSLT IN METAL FUME FEVER. CHRONIC: NOTE: CARBON MON OXIDE APPEARS ON NAVY LIST OF OCCUP CHEM PROH RHAZS. SEEK CONSULTATION FROM APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST INFO & SAFE HNDLG & EXPOS INFO (FP N). CHRONIC & PNLNG INHAL OF HIGH CO NCS OF FUMES/DUST OF FOLLOWING ELEMENTS MAY LEAD TO CNDTS LISTED: AL: MAY INITIATE FIBROTIC

Explanation of Carcinogenicity:

NICKEL/NICKEL CMPDS:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 257, 1990:GRP 2B. NTP 8TH ANNUAL RPT ON CARCINS, 1998:REAS ANTIC TO BE HUMAN CARCIN. CARBON BLACK:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 65, PG 149, 1996:GRP 2B. CHROMIUM & CHROMIUM (III) OXIDE (2:3):NTP 8TH ANNUAL RPT ON CARCINS, 1998:KNOWN TO (SUPDAT)

Signs And Symptoms Of Overexposure:

HLTH HAZ: MAY CAUSE DERM, ECZEMA, CONJ & IRRIT OF MUC MEMBS OF UPPER RESP TRACT. LONG-TERM INHAL EXPOS TO AL DUSTS/FUMES HAS BEEN ASSOC W/FIBROTIC LUNG CNDTN KNOWN AS SHAVER'S DISEASE. AL DUSTS/F INES & FUMES ARE A LOW HLTH RISK BY INHAL. FOR STD OPERATIONS (MILLING, CUTTING, GRINDING), AL DUST SHOULD BE TREATED AS NUISANCE DUST AS DEFINED BY ACGIH. WELDING AL, PLASMA ARC CUTTING, & ARC SPRAY METALIZING CAN GENERATE OZONE. EXCESSIVE EXPOS TO AL FUME & DUST HAS BEEN ASSOC W/LUNG DISEA

Medical Cond Aggravated By Exposure:

INDIVIDUALS W/CHRONIC RESP DISORDERS (I.E. ASTHMA, CHRONIC BRONCH, EMPHYSEMA, ETC) MAY BE ADVERSELY AFFECTED BY FUME/AIRBORNE PARTICULATE MATTER EXPOS. -- OTHER INFO: PROCESSES ARE USED TO (FIRST AID PROC)

First Aid:

INHAL: REMOVE TO FRESH AIR; IF CNDTN CONTINUES, CONSULT MD. EYES: FLUSH THORO W/RUNNING WATER FOR AT LST 15 MINS TO REMOVE PARTICULATE; TAKE CARE TO RINSE UNDER LIDS. OBTAIN MED ATTN. SKIN: REMOVE PARTICULATE BY WASHING THORO W/SOAP & WATER. SEEK MED ATTN IF CNDTN PERSISTS. FOR MINOR BURNS, APPLY COLD WATER. FOR SEV BURNS, SEEK IMMED MED ATTN. INGEST: DOES NOT REPRESENT HAZ, IF SIGNIFICANT AMTS OF MET AL ARE INGESTED, CONSULT MD. -- MED CNDTS: ARC-WELD STEELS, ALSO CREATING RELATIVELY LOW LE

Spill Release Procedures:

FINE TURNINGS & SM CHIPS SHOULD BE SWEEP/VACUUMED. SCRAP METAL CAN BE RECLAIMED FOR RE-USE. -- EXPLO HAZ: ARE FORMULATED W/FLUORIDES & FUMES ASSOC W/ THEM CAN CONTAIN SIGNIFICANTLY MORE FLUORIDES THAN OXIDES. BECAUSE OF THESE FACTORS, ARC-WELDING FUMES FREQUENTLY MUST BE TESTED FOR INDIVIDUAL CONSTITUENTS THAT ARE LIKELY TO BE PRESENT TO DETERMINE WHETHER SPECIFIC TLV'S ARE EXCEEDED. (OTHER INFO)

Neutralizing Agent:

N/P

Waste Disposal Methods:

USED/UNUSED PROD SHOULD BE TESTED TO DETERMINE HAZ STATUS & DISP REQUIREMENTS UNDER FED, STATE/LOC LAWS & REGS. -- ECOLOGICAL INFO:DUSTS, FUMES & MISTS MAY CAUSE IRRIT OF EYES, NOSE & THROAT & FLU-LIK E ILLNESS CALLED METAL FUME FEVER. EARLY SYMPS OF METAL FUME FEVER INCL METALLIC/SWEET TASTE IN MOUT H, DRYNESS & IRRIT OF THROAT & (TRANSPORT INFO)

Handling And Storage Precautions:

NOTE: PRODS UNDER NORMAL CNDTS DO NOT REPRESENT END INHAL, INGEST OR CONTACT HLTH HAZ. NOTE: PRODS IN THEIR USUAL PHYSICAL FORM DO NOT POSE ANY HLTH HAZS. HOWEVER, OPERATIONS SUCH AS BURNING, WELDING, SAWING, BRAZING OR GRINDING MAY RESULT IN LISTED EFFECTS IF EXPOSURES EXCEED PERMISSIBLE LIMITS.

Other Precautions:

N/P -- SPILL PROC: CONCLUSIONS BASED ON INHALABLE CONC ARE GENRLY ADEQ IF NOT TOX ELEMENTS ARE PRESENT IN WELDING ROD, METAL/METAL COATING & CNDTS ARE NOT CONDUSIVE TO FORM OF TOX GASES. ARE LISTED AS POSSIBLY CARCIN TO HUMANS BY IARC. WELDING OF AL ALLOYS MAY GENERATE CARBON MONOXIDE, CARBON DIOXIDE, OZONE, (VENT)

Fire and Explosion Hazard Information

Flash Point Method:

N/A 16

Flash Point:

Flash Point Text:

NOT APPLICABLE

Autoignition Temp:

Autoignition Temp Text:

N/P

Lower Limits:

N/A

Upper Limits:

N/A

Extinguishing Media:

DRY POWDR DOLMITE, DRY SAND/DRY GRAPHITE; DO NOT USE WATER ON MOLTEN METAL. USE COARSE WATER SPRAY ON CHIPS, TURNINGS, ETC. DO NOT USE HALOGENATED EXTING AGENTS ON METAL FUMES.

Fire Fighting Procedures: FULL PROT EQUIP (FP N). -- FIRST AID PROC: MONOXIDE INSTEAD OF OZONE. SUCH FUMES GENRLY ARE USE NIOSH APPROVED SCBA & PARTS OF EQUIP FOM FUMES. CNDTS OF METAL FUMES DEPENDING ON ALLOYED IN/OLVED. CR & NICKEL CMPDS ARE FOUND IN FUMES WHEN STAINLESS STEEL & OTHER METALS ARE ARC/SPK GENERATED

NOTE: PRODS IN SOLID STATE PRESENT NO FIRE/EXPLO HAZ. SM CHIPS, FINES & DUST MAY IGNITE READILY. ARC/SPK GENERATED WHEN WELDING - 0. -- FIRE FIGHT PROC: WELDED, SOME COATED & FLUX-CORED ELECTRODES (SPILL PROC: RSLT 1; FLAMMABILITY - 0, REACTIVITY - 0. -- FIRE FIGHT PROC: WELDED, SOME COATED & FLUX-CORED ELECTRODES (SPILL PROC: RSLT 1; FLAMMABILITY - 0, REACTIVITY - 0)

Unusual Fire/Explosion Hazard:

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