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TELEDYNE WAH CHANG HUNTSVILLE -- TUNGSTEN WELDING ELECTRODES -- 3439-00-105-9945

Product ID:TUNGSTEN WELDING ELECTRODES MSDS Date:03/01/1992 FSC:3439 NIIN:00-105-9945 **MSDS Number: BCYVH** === Responsible Party === Company Name: TELEDYNE WAH CHANG HUNTSVILLE Address:7300 HIGHWAY 20 WEST City:HUNTSVILLE State:AL ZIP:35806 Country:US Info Phone Num:205-837-1311 Emerge ncy Phone Num:205-837-0285 CAGE:3G120 === Contractor Identification === Company Name: TELEDYNE WAH CHANG Address:7300 HIGHWAY 20 WEST Box:City:HUNTSVILLE State:AL ZIP:35806-2052 Country:US Phone:205-837-0285 CAGE:3G120

Ingred Name:TUNGSTEN,AS W,SOLUBLE COMPOUNDS. CAS:7440-33-7 RTECS #:YO7175000 Fraction by Wt: 97.7% Other REC Limits:NONE SPECIFIED OSHA PEL:NOE ESTABLISHED ACGIH TLV:1 MG/M3/3 STEL; 9495

Ingred Name: THORIUM DIO

XIDE (SARA 313) CAS:1314-20-1 RTECS #:XO6950000 Fraction by Wt: 2.2% Other REC Limits:NONE RECOMMEDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT. ACUTE- DUST MAY IRRITATE EYE, SKIN & RESPIRATORY TRACT. FUMES FROM WELDING MAY CAUSE IRRITATION. WELDING ARC LIGHT MAY DAMAGE

EYES & SKIN. ELECTRIC SHOCK C AN KILL. CHRONIC- DUST/FUMES MAY CAUSE LUNG CANCER.

Explanation of Carcinogenicity:NTP LISTS THORIUM AS A KNOWN CARCINOGEN, PER MSDS.

Effects of Overexposure:CHILLS, FEVER, COUGHING, SNEEZING, WHEEZING; REDNESS, ITCHING, EYE DAMAGE; REDNESS, ITCHING OF SKIN

Medical Cond Aggravated by Exposure:CHRONIC RESPIRATORY DISEASES AND ASTHMA MAY BE AGGRAVATED BY EXPOSURE TO DUST, FUME, OR MISTS.

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:SEEK MEDI CAL ATTENTION.

Flash Point:NOT RELEVANT

Extinguishing Media:USE EXTINGUISHING MEDIA FOR SURROUNDING FIRE. FOR TUNGSTEN DUST FIRES, USE CLASS D EXTINGUISHING MEDIA, DRY POWDERS. Fire Fighting Proce dures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHES.

Unusual Fire/Explosion Hazard:WHEN TUNGSTEN IS HEATED IN AIR, TUNGSTEN TRIOXIDE BEGINS TO SUBLIME ABOVE 1382F (750C).

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN SUITABLE DOT APPROVED DISPOSAL CONTAINER. TUNGSTEN SCRAP AND DUST HAVE VALUE AND CAN BE RECLAIMED. Neutralizing Agent: NOT RELEVANT

Handling and Storage Precautions: MAINTAIN GOOD HOUSEKEEPING PROCEDURES TO PREVENT DUST ACCUMULATION FROM GRINDING, ETC.
Other Precautions: FOLLOW ALL PROCEDURES IN ANSI Z49.1 AND OSHA 29 CFR 1910. PERIODIC MEDICAL EXAMS ARE RECOMMENDED FOR INDIVIDUALS REGULARLY EXPOSED TO DUST OR FUME.

Respiratory Protection: USE NIOSH APPROVED RESPIRATOR WITH HEPA CARTRIDG

E OR SUPPLIED AIR RESPIRATOR. IF RESPIRATOR USED, A PROGRAM IN ACCORDANCE WITH 29 CFR 1910.134 MUST BE IMPLEMENTED. CONFINED SPACES REQUIRE SPECIAL ATTE NTION TO PROVIDE ADEQUATE VENTILATION.

Ventilation: USE GENERAL & LOCAL EXHAUST AT FLAME TO KEEP FUMES AND GASES BELOW TLV'S IN THE WORKER'S BREATHING ZONE & GENERAL AREA.

Protective Gloves:WELDER'S GLOVES

Eye Protection: FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:WEAR FLAME RETARDANT CLOTHES MAKING SURE SKIN NOT EXPO

SED.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health

HCC:T7

NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:10652F,5900 Melt/Freeze Pt:M.P/F.P Text:6152F,3400C Spec Gravity: 19 Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:INSOLUBLE Appearance and Odor:TIN-WHITE METAL. NO ODOR.

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Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, STRONG ACIDS, BROMINE TRIFLUORINE, FLUORINE, IODINE PENTAFLUORIDE AND MIXING LEAD OXIDE+(DUST)
Stability Condition to Avoid:ALLOYS ARE CHEMICALLY STABLE. THORIUM DECAYS BY RADIOACTIVITY.
Hazardous Decomposition Products:NONE

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND

FEDERAL REGULATIONS

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