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TELEDYNE WAH CHANG -- TUNGSTEN WELDING ELECTRODES -- 3439-00-132-6710

Product ID:TUNGSTEN WELDING ELECTRODES MSDS Date:11/01/1985 FSC:3439 NIIN:00-132-6710 **MSDS Number: BJPJR** === Responsible Party === Company Name: TELEDYNE WAH CHANG Address:7300 HIGHWAY 20 WEST City:HUNTSVILLE State:AL ZIP:35806-2052 Country:US Info Phone Num:205-837-1311 **Emergency 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 CAS:7440-33-7 RTECS #:YO7175000 Fraction by Wt: 98-100% Other REC Limits:NONE SPECIFIED OSHA PEL:5 MG/M3/ 10 STEL ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:ZIRCONIUM OXIDE CAS:1314-23-4 RTECS #:ZH8800000 F raction by Wt: 0-0.25% Other REC Limits:NONE SPECIFIED

Ingred Name:THORIUM DIOXIDE (SARA III) CAS:1314-20-1 RTECS #:XO6950000 Fraction by Wt: 1-2% Other REC Limits:NONE SPECIFIED

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES,

GASES

OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. A CUTE EXPOSURE FROM SOME TOXIC GASES MAYCAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL.

Explanation of Carcinogenicity:THORIUM-232 DIOXIDE IS RADIOACTIVE (PRIMARY ALPHA) IS HAS SHOWN TO BE CARCINOGENIC IN NTP STUDIES. Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SU

CH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. WATERY EYES, HEADACHE, BREA THING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS MAY OCCUR FROM ACUTE EXPOSURE. TOXIC GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES. CHRONIC RESPIRATORY DISEASE

S(ASTHMA) ARE AGGRAVATED

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED C Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS. WHEN HEATED IN AIR, TUNGSTEN TRIOXIDE BEGINS TO SUBLIME ABOVE 750C Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSU RE. Handling and Storage Precautions: WEAR GLOVES AND FLAME RETA RDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. Other Precautions: PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM. Respiratory Protection: USE WELD FUME RESPIRATOR **OR AIR SUPPLIED** RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS. Ventilation: USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE Protective Gloves:WELDERS LEATHER GLOVES Eye Protection: OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment: FLAME RETARD

ANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE. Supplemental Safety and Health WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING F ACTORS ARE THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES. HCC:N1 Boiling Pt:B.P. Text:10652F Melt/Freeze Pt:M.P/F.P Text:6152F,3400C Spec Gravity:19 Solubility in Water: INSOLUBLE Appearance and Odor:TIN-WHITE METAL, NO ODOR Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS AT ELEVATED TEMPERATURES, STRON G ACIDS, BROMINE TRIFLUORIDE, LEAD OXIDE, FLUORINE, IF5. Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE. 

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. NOTE THAT TUNGSTEN SCRAP AND DUST HAVE RECLAIM VALUE.

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