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TELEDYNE WAH CHANG HUNTSVILLE -- TUNGSTEN WELDING ELECTRODES -- 3439-00-872-1411

Product ID:TUNGSTEN WELDING ELECTRODES MSDS Date:03/01/1991 FSC:3439 NIIN:00-872-1411 **MSDS Number: BKJQX** === Responsible Party === Company Name: TELEDYNE WAH CHANG HUNTSVILLE Address:7300 HIGHWAY 20 WEST City:HUNTSVILLE State:AL ZIP:35806-2052 Country:US Info Phone Num:205-837-1311 Em ergency Phone Num:205-837-0285 CAGE:3G120 === Contractor Identification === Company Name: INWELD MFG CORP Address:3962 PORTLAND ST Box:40 City:COPLAY State:PA ZIP:18037-0040 Country:US Phone:610-261-1900 CAGE:66376 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 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 Other REC Limits:NONE SPECIFIED

Ingred Name:THORIUM OXIDE CAS:1314-20-1 Other REC Limits:NONE SPECIFIED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:INHALATION OF TUNGSTEN DUSTS,FUMES/MIST

S MAY CAUSE TRANSIENT/PERMANENT LUNG DAMAGE & IRRITATES SKIN.THORIUM IS TOXIC RADIOLOGICALLY, BUT HAS LOW CHEMICAL TOXICITY.THE LIGHT FROM THE ARC CAN CAUSE EYE/S KIN DAMAGE & CAN DECOMPOSE CHLORINATED HYDROCARBON TO TOXIC GASES SUCH AS PHOSGENE.CHRONIC-NOT GIVEN

Explanation of Carcinogenicity: THORIUM OXIDE

Effects of Overexposure: ELECTRIC ARC WELDING MAY CREATE FUMES AND GASES THAT CAN BE DANGEROUS TO YOUR HEALTH.ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN

KILL.

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

First Aid:CALL FOR MEDICAL AID.INHALATION:REMOVE TO FRESH AIR.GIVE CPR/OXYGEN IF NEEDED.EYE:FLUSH WITH WATER FOR 15 MINUTES.SKIN:WASH WITH SOAP & WATER.CLEAN WOUND CONTAMINATED WITH DUST/FUME/MIST IMMEDIATELY.I NGESTION:SEEK MEDICAL ATTENTION. IN CASE OF ELECTRICAL SHOCK

,TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT.

Flash Point:NON FLAMMABLE

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE. FOR TUNGSTEN DUST FIRES USE CLASS D EXTINGUISHING MEDIA, DRY POWDERS. 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 Haza rd:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES.TUNGSTEN DUST (FROM GRINDING) MAY PRESENT A MODERATE FIRE HAZARD IF ALLOWED TO ACCUMULATE.TUNGSTEN TRIOXIDE.

Neutralizing Agent:NOT APPLICABLE.

Handling and Storage Precautions:STORE IN A DRY PLACE. Other Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL O N THE PRODUCT.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:NONE REQUIRED FOR ELECTRODES AS RECEIVED.REQUIRED DURING GRINDING(DRESSING ELECTRODE)OR WELDING,IF THE LIMITS ARE EXCEEDED.FOR THORIUM ELECTRODES USE A DUST MASK(FOR RADIO ACTIVE PARTICLES).USE NIOSH APPROVED RESPIRATOR(29 CFR 1910.134).

Ventilation:LOCAL EXHAUST AT THE ARC.

Protective Gloves:WELDER'S GLOVES

Eye Protection: HELMET OR FACE SHIELD WITH FILTER LENS

Other Prote

ctive Equipment:WEAR HAND,HEAD & BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION,SPARKS & ELECTRICAL SHOCK(FLAME RETARDANT).

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

INSULATE FROM WORK AND GROUND.TRAIN THE WELDER NOT TO PERMIT ELECTRICALLY LIVE PARTS TO CONTACT SKIN OR CLOTHING OR GLOVES IF THEY ARE WET.

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

OXIDIZERS ESPECIALLY AT ELEVATED TEMPERATURES, STRONG ACIDS, BF3, F, IF5, AND MIXING LEAD OXIDE WITH TUNGSTEN DUST. Stability Condition to Avoid: THORIUM DECAYS BY RADIOACTIVITY. Haz ardous Decomposition Products:NONE

Waste Disposal Methods:DISPOSE OF THE MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. TUNGSTEN SCRAP AND DUST HAVE VALUE AND CAN BE RECLAIMED.

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