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

======== Product Identification ============

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

====== Composition/Information on Ingredients ========

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

FIRE HAZARD IF ALLOWED TO ACCUMULATE.TUNGSTEN TRIOXIDE.
======== Accidental Release Measures =========
Neutralizing Agent:NOT APPLICABLE.
=========== Handling and Storage =============
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.
======== Physical
/Chemical Properties =========
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 and Reactivity Data =========
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

COMBUSTIBLES.TUNGSTEN DUST (FROM GRINDING) MAY PRESENT A MODERATE

rd:WELDING ARC AND SPARKS CAN IGNITE

ardous	Decom	position	Produc	ts:NONE
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====== Disposal Considerations ===========

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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