

TELEDYNE WAH CHANG -- TUNGSTEN WELDING ELECTRODES (2% THORIATED) --
3439-00-872-1411
===== Product Identification =====

Product ID:TUNGSTEN WELDING ELECTRODES (2% THORIATED)
MSDS Date:11/01/1985
FSC:3439
NIIN:00-872-1411
MSDS Number: BFTJG
=== 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:INDUSTRO-WEL, INC.
Address:4225 PHIL NIEKRO PARKWAY SUITE 115
Box:City:NORCROSS
State:GA
ZIP:30093
Country:US
Phone:404-564-0630
CAGE:3N725
Company Name:L AND M WELDING SUPPLY INC
Address:568 WESTERN DR
Box:City:MOBILE
State:AL
ZIP:36607-1420
Country:US
Phone:334-470-9997
CAGE:1HJ95
Company Name:TELEDYNE WAH CHANG
Address:7300 HIGHWAY 20 WEST
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Ph

one:205-837-0285
CAGE:3G120

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

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Fraction by Wt: >97.7%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:THORIUM DIOXIDE (SARA III)
CAS:1314-20-1
RTECS #:XO6950000
Fraction by Wt: 2.2%
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YE
S Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ALL HAZARDS OCCUR FROM DUST, FUMES OR
MISTS. INHALATION: MAY CAUSE LUNG DAMAGE OR IRRITATION. THE LIGHT
FROM THE ARC CAN CAUSE EYE DAMAGE, INFLAMMATION OF THE MUSOUS
MEMBRANE AND SKIN DAMAGE.
Explanation of Carcinogenicity:NTP STATES THERE IS SUFFICIENT EVIDENCE
FOR THE CARCINOGENICITY OF THORIUM DIOXIDE IN HUMANS.
Effects of Overexposure:EYE:DMG,INFAMM;SKIN:IRR;INH:TRANSIEN/P
ERMAN
LUNG DMG;TOX RADIOLOG;ELECTR SHOCK KILLS;RISK LUNG CANCR
Medical Cond Aggravated by Exposure:CHRONIC RESPIRATORY DISEASES AND
ASTHMA MAY BE AGGRAVAED BY EXPOSURE TO DUST, FUME OR MISTS.

===== First Aid Measures =====

First Aid:SKIN AND EYES: WASH SKIN WITH SOAP AND WATER. WASH EYES WITH
LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION
OCCURS, SEEK MEDICAL ATTENTION. INHALATION: REMOVE FROM EXPOSURE.
SEEK MEDICA L ATTE

NTION. IF NECESSARY AID BREATHING. INGESTION:
SEEK MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Extinguishing Media:FOR THE SURROUNDING FIRE. FOR TUNGSTEN DUST FIRES
USE CLASS D EXTINGUISHING MEDIA, DRY POWDERS.

Fire Fighting Procedures:FOR A TUNGSTEN DUST FIRE CONFINED TO A SMALL
AREA, USE A RESPIRATOR APPROVED FOR TOXIC DUSTS AND FUMES. FOR
LARGE FIRE, FIREFIGHTERS SHOULD USE SCBA.

Unusual Fire/Explosion Hazard:WHEN TUNGSTEN IS HEATE
D IN AIR, TUNGSTEN
TRIOXIDE BEGINS TO SUBLIME ABOVE 750 C.

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP AND PLACE IN PROPER CONTAINER.
TUNGSTEN SCRAP AND DUST HAVE VALUE AND CAN BE RECLAIMED.

Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage =====

Handling and Storage Precautions:MAINTAIN GOOD HOUSEKEEPING TO PREVENT
DUST ACCUMULATION.

Other Precautions:PERIODIC MED EXAMS RECOM
MENDED FOR INDIVIDUALS

REGULARLY EXPOSED TO DUST/FUME/TRAIN WELDER TO KEEP HIS HEAD OUT OF
THE FUMES.MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES.

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

Respiratory Protection:NIOSH APPVD RESP IAW 29CFR 1910.134

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:WELDER'S GLOVES

Eye Protection:FACE PROTECT W/WLDG LENS.

Other Protective Equipment:WHEN WELDING USE FLAME RETARDANT CLOTH.

Work Hygienic Practices:OBSER

VE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR
FOOTWEAR.

Supplemental Safety and Health

NONE

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:32.0F,0.0C

Melt/Freeze Pt:M.P/F.P Text:32.0F,0.0C

Spec Gravity:19.

Solubility in Water:INSOLUBLE

Appearance and Odor:TIN-WHITE METAL.NO ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Av

oid:YES

STRONG ACIDS, BROMINE TRIFLUORIDE, FLUORINE, IODINE PENTAFLUORIDE, AND
MIXING LEAD OXIDE WITH TUNGSTEN DUST.

Stability Condition to Avoid:OXIDIZERS AT ELEVATED TEMPERATURES.

Hazardous Decomposition Products:NONE

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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