

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

Box:City:HUNTSVILLE

State:AL

ZIP:35806-2052

Country:US

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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.