

TUNGSTON MANUFACTURING CO LTD, EISHERGATE -- TUNGSTON ELECTRODES --  
3439-00-105-9948

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

Product ID:TUNGSTON ELECTRODES

MSDS Date:04/24/1992

FSC:3439

NIIN:00-105-9948

MSDS Number: BQSWC

=== Responsible Party ===

Company Name:TUNGSTON MANUFACTURING CO LTD, EISHERGATE

Address:PORTSLADE,BRIGHTON, SUSSEX BN41 1PY, UK.

City:CHARLOTTE (AGENT:WORLDWIDE WELDING INC)

State:N

C

ZIP:28221

Country:US

Info Phone Num:704-596-0123

Emergency Phone Num:704-596-0123

CAGE:K1256

=== Contractor Identification ===

Company Name:TUNGSTON MANUFACTURING CO LTD, EISHERGATE

Address:PORTSLADE,BRIGHTON, SUSSEX BN41 1PY, UK.

Box:City:CHARLOTTE (AGENT:WORLDWIDE WELDING INC)

State:NC

ZIP:28221

Country:US

Phone:704-596-0123

CAGE:K1256

Company Name:WORLD WIDE WELDING INC

Address:3300-S WOODPARK BLVD

Box:217006

City:CHARLOTTE

State:NC

ZIP:28221

Country:US

Phone:704-596-0123

CAGE:59754

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Composition/Information on Ingredients  
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Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

Fraction by Wt: 97.7%

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%

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO

Health Hazards Acute and Chr

onic:LIGHT FROM ARC CAN CAUSE EYE DAMAGE,

INFLAMATION, SKIN DAMAGE.TUNGSTEN DUST MAY CAUSE SKIN IRRITATION AND PERMANENT LUNG DAMAGE. THORIUM OXIDE DEPOSITES IN LUNGS AND CAN CAUSE PULMONARY FIBRISIS & PNE UMOCIRRHOSIS. ELECTRICAL SHOCK CAN KILL.EXPOSURE TO DUST ABOVE THE NRC LIMITS MAY INCREASE THE RISK OF LUNG CANCER.

Explanation of Carcinogenicity:THORIUM OXIDE IS LISTED AS A HUMAN CARCINOGEN BY NTP.

Effects of Overexposure:DIZZINESS, NAUSEA,IRRITATION OF NOSE, THROAT;

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

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First Aid Measures  
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First Aid:EYES:WASH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.SEE DOCTOR. SKIN:WASH WITH SOAP AND WATER.IF IRRITATION PERSISTS,SEE DOCTOR. INHALATION:REMOVE TO FRESH AIR.GIVE OXYGEN/CPR IF NEEDED.SEE DOCTOR. INGESTION:SEE DOCTOR. OTHER:WOUNDS CONTAMINATED WITH DUST,FUME OR MIST SHOULD BE IMMEDIATELY AND THOROUGHLY CLEANED.

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Fire Fighting Measures  
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Extinguishing Media:AS APPROPRIATE FOR SURROUNDING FIRE. FOR TUNGSTEN DUST FIRE,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 FIRES USE SCBA.

Unusual Fire/Explosion Hazard:WHEN TUNGSTEN IS HEATED IN AIR, TUNGSTEN TRIOXIDE

BEGINS TO SUBLIME ABOVE 1382F (750C).

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

Spill Release Procedures:PICK UP RODS. FOR DUST, USE WET SWEEP, SAVE IN A DRUM FOR DISPOSAL OR SEND FOR RECYCLING.

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

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

Other Precautions:PERIODIC MEDICAL EXAMINATIONS ARE RECOMMENDED FOR INDIVIDUALS REGULARLY EXPOSED TO DUST OR FUME.

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

Respiratory Protection:NIOSH APPROVED FUME RESPIRATOR.

Ventilation:LOCAL EXHAUST.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:FACE SHIELD W/FILTER LENS

Other Protective Equipment:SPARK PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.REMOVE AND LAUNDRER CONTAMINATED CLOTHING.

Supplemental Safety and Health  
NONE.

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

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HCC:N1

Boiling Pt:B.P. Text:10652F,5900

Melt/Freeze Pt:M.P/F.P Text:6116F,3380C

Spec Gravity:19.3

Solubility in Water:INSOLUBLE

Appearance and Odor:GREY METAL, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT OF DUST WITH OXIDIZERS AT HIGH TEMPERATURES.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES.

===== Disposal Consideratio

ns =====

Waste Disposal Methods:KEEP IN COVERED DRUMS, PENDING DISPOSAL. HANDLE  
& DISPOSE IN FULL COMPLIANCE WITH ALL APPLICABLE INTERNATIONAL,  
FEDERAL, STATE, & LOCAL REGULATIONS.

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particular situation.