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GTE PRODUCTS CORP PRECISION MATERIALS PRODUCTS -- THORIA TUNGSTEN ELECTRODES -- 3439-00-132-6710

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

Product ID:THORIA TUNGSTEN ELECTRODES

MSDS Date:10/26/1991

FSC:3439

NIIN:00-132-6710

MSDS Number: BWMNP === Responsible Party ===

Company Name: GTE PRODUCTS CORP PRECISION MATERIALS PRODUCTS

Address: CHEMICAL AND METALLURGICAL DIV.

Box:70

City:TOWANDA

State:PA ZIP:1884

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Country:US

Info Phone Num:717-265-2121

Emergency Phone Num:717-265-2121

CAGE:98251

=== Contractor Identification ===

Company Name: GTE PRODUCTS CORP PRECISION MATERIALS PRODUCTS

Box:70

City:TOWANDA

State:PA

ZIP:18848-0070 Country:US

Phone:717-265-2121

CAGE:98251

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:TUNGSTE

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CAS:7440-33-7

RTECS #:YO7175000 Fraction by Wt: 98 - 99%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOE ESTABLISHED ACGIH TLV:1 MG/M3/3 STEL; 9495

Ingred Name: THORIUM DIOXIDE (SARA 313)

CAS:1314-20-1

RTECS #:XO6950000 Fraction by Wt: 1 - 2%

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT RELEVANT.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES

OSHA:NO

Health Hazards Acute and Chronic: TARGET ORGANS: LUNGS, EYES, SKIN.

ACUTE- FUMES CAN CAUSE EYES, NOSE & THROAT IRRITATION, DIZZINESS, HEADACHE, NAUSEA, COUGH. THORIUM DIOXIDE IS AN ALPHA EMITER & ITS HAZARD IS DUST/FUMES INHALATION. AR C RAYS & UV CAN INJURE EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL. CHRONIC- MAY CAUSE LUNG DISEASE.

Explanation of Carcinogenicity: CONTAINS THORIUM OXIDE.

Effects of Overexposure: EYES, SKIN, RESPIRATORY TRACT IRRITATION, DIZZINESS. W

ATERY EYES, HEADACHE, NAUSEA, BREATHING DIFFICULTY, COUGHING, CHEST PAINS, FEVER, BODY ACHE, CHILLS. EYE INJURY, SKIN BURNS, CONVULSION, MUSCULAR WEAKNESS, LOSS OF CONSCIOUSNESS

Medical Cond Aggravated by Exposure: PERSONS WITH IMPAIRED PULMONARY FUNCTION, AIRWAY DISEASES AND CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, CHRONIC BRONCHITIS, ETC... CAN BE AGGRAVATED BY THE EXPOSURE.

First Aid: EMPLOY FIRST AID TECHNIQUE

RECOMMENDED BY RED CROSS.

INHALATION: REMOVE FROM EXPOSURE. SEE PHYSICIAN. FOR ELECTRIC SHOCK, DISCONNECT POWER. SKIN:FOR ARC BURNS, APPLY COLD, CLEAN COMPRESSES AND CALL A P HYSICIAN. EYE:FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

Flash Point: NONFLAMMABLE

Extinguishing Media: WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE, USE WATER SPRAY TO COO

L FIRE EXPOSED CONTAINERS. Fire Fighting Procedures: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard: WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES. ========= Accidental Release Measures ================ Spill Release Procedures: NOT RELEVANT Neutralizing Agent: NOT RELEVENT ============= Handling and Storage ========================== Handling and Storage Precautions: STORE IN DRY PLACE. Other Precautio ns:AVOID BREATHING FUMES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. ===== Exposure Controls/Personal Protection ========= Respiratory Protection: USE NIOSH APPROVED SUPPLIED AIR RESPIRATORY PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE B ELOW TLV. Ventilation: LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONT ROL EXPOSURE TO AIRBORNE FUMES WHENEVER POSSIBLE. Protective Gloves:FLAME-PROOF WELDING GLOVES Eye Protection: SAFETY GLASSES UNDER WELDING HELMET Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER, WORK CLOTHING AND APRON AS REQUIRED. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING. Supplemental Safety and Health ======== Physical/Chemical Properties =========== HCC:T6 NRC/St

ate Lic Num:NOT RELEVENT Boiling Pt:B.P. Text:10220F,5660

Melt/Freeze Pt:M.P/F.P Text: 6170F,3410

Spec Gravity:19

Evaporation Rate & Evaporation Release Reference: NOT RELEVENT

Solubility in Water: INSOLUBLE

Appearance and Odor: GRAY METAL - NO ODOR

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

Stability Indicator/Materials to Avoid:YES

NONE

Hazardous Decomposition Products:WELDING FUMES (OXIDES OF METAL BEING WELD) AND GASES SUCH AS OZONE, CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN

OXIDES...

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

Waste Disposal Methods:PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS RECOVERY VALUE. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.

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