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## AMERICAN FILLER METALS CO. -- 1 & 2% TUNGSTEN -- 3439-00-105-9948

Product ID:1 & 2% TUNGSTEN

MSDS Date:01/03/1995

FSC:3439

NIIN:00-105-9948

Status Code:A

MSDS Number: CJKPV === Responsible Party ===

Company Name: AMERICAN FILLER METALS CO.

Address:6060 DONOHO

City:HOUSTON

State:TX ZIP:77033 Country:US

Info Phone Num:800-394-4550

Emergency Phone Num:800-394-4550

CA

GE:TO230

=== Contractor Identification ===

Company Name: AMERICAN FILLER METALS CO.

Address:6060 DONOHO Box:City:HOUSTON

State:TX ZIP:77033 Country:US

Phone:800-394-4550

CAGE:TO230

Company Name: CMAX INC Address: 6127 PERIMETER PKY

Box:11647

City:MONTGOMERY

State:AL ZIP:36111 Country:US

Phone:334-613-0500/ FAX: 2922 Contract Num:SP0400-99-V-1240

CAGE:2Y223

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

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000 ACGIH TLV:5 MG/M3

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CGIH STEL:10 MG/M3 Ingred Name:ZIRCONIUM OXIDE CAS:1314-23-4 RTECS #:ZH8800000 Ingred Name:THORIUM OXIDE CAS:1314-20-1 RTECS #:XO6950000 &lt: Wt:2. =========== Hazards Identification ========================== Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SHORT TERM OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA OR IRRITATION OF NOSE, THROAT OR EYE S. INDUSTRIALLY TUNGSTEN THORIA ALLOY DOES NOT CONSTITUTE AN IMPORTANT H EALTH HAZARD. EXPOSURE IS RELATED CHIEFLY TO THE DUST ARISING OUT OF GRINDING AND MACHINING OPERATIONS. CHRONIC INHALATION OF THE DUST MAY CAUSE DAMAGE IN HUMANS. Explanation of Carcinogenicity: THORIUM OXIDE COMPOUNDS ARE REQUIRED BY OSHA TO BE CONSIDERED CARCINOGENIC. Effects of Overexposure: HEADACHE, DIZZINESS, NAUSEA, IRRITATION OF EYES, NOSE AND THROAT AND BURNS IF PROTECTIVE MEASURES ARE NOT OBSERVED. Medical Cond Aggravated by Exposure: NONE SPECIFICALLY KNOWN. First Aid:EYE CONTACT-IF IRRITATION OCCURS, FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MIN, IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. SKIN CONTACT-WASH WITH SOAP & WATER, ISOLATE FROM EXPOSURE IF RASH OCCUR S. SEEK MEDICAL ATTENTION IF RASH PERSISTS. INHALATION-IF LARGE AMOUNTS OF DUSTS ARE INHALED, MOVE EXPOSED PERSON TO FRESH AIR . IF NECESSARY PERFORM ARTIFICIAL RESPIRATION & SEEK MEDICAL ATTENTION. IN GESTION-SEEK MEDICAL ATTENTION. GIVE LARGE QUANTITIES

OF WATER & INDUCE VOMITING. DO NOT MAKE AN UNCONSCIOUS PERSON VOMIT. OTHER-WOUNDS SHOULD BE CLEANED THOROUGHLY ASAP.

Extinguishing Media: USE CLASS D FIRE EXTINGUISHING AGENT. (DRY POWDER) Fire Fighting Procedures: FOR A POWDER FIRE CONFINED TO A SMALL AREA USE A RESPIRATOR APPROVED FO

R RADIONUCLIDES. FOR LARGE FIRES USE SELF CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:DUSTS MAY PRESENT A FIRE EXPLOSION HAZARD UNDER RARE FAVORING CONDITIONS OF PARTICLE SIZE, DISPERSION & STRONG IGNITION SOURCE. HOWEVER THIS NOT EXPECTED TO BE A PROBLEM UNDER HANDLING CONDITIONS.
======== Accidental Release Measures =========
Spill Release Procedures:A SOLID, THIS MATERIAL POSES NO PROBLEMS WITH RELEASE OR SPILLS.
=== Handling and Storage =============
Other Precautions:MAINTAIN GOOD HOUSEKEEPING PROCEDURES TO PREVENT DUST ACCUMULATION FROM GRINDING, ETC. CLEANUP USING METHODS WHICH AVOID DUST GENERATION SUCH AS WET MOPING OR VACUUMING. AVOID DUST INHALATION & DIRECT SKIN CONTACT WITH DUST. WASH HANDS & SKIN THOROUGHLY IF EXPOSED TO DUST OR MIST. ARC RAYS CAN INJUR E EYES & BURN SKIN.
====== Exposure Controls/Personal Protection ========
Respiratory Protecti
on:APPROPIATE NIOSH APPROVED RESPIRATOR FOR EQUIPPED WITH RADIONUCLIDES FILTER IF AIRBORNE DUST CONCENTRATIONS ARE PRESENT & EXCEED THE APPROPIATE LIMITS. ALL REQUIREMENTS SET FORTH IN 29CFR 1910.134 MUS T MEETING.
Ventilation:USE LOCAL EXHAUST VENTILATION WHICH IS ADEQUATE TO LIMIT PERSONAL EXPOSURE TO AIRBORNE DUST LEVEL WHICH DO NOT EXCEED THE APPROPIATE LIMITS. USE RESPIRATORY.
Protective Gloves:WELDERS GLOVES ARE RECOMMENDED.
Eye Protection:SAFETY GLASSES WITH SIDE SHIEL D OR GOGGLES ARE RECOMMENDED.
Other Protective Equipment:WEAR APPROPIATE HAND, HEAD AND BODY PROTECTIONTO PREVENT INJURY FROM SPARKS & ELECTRICAL SHOCK. Work Hygienic Practices:FOR MAXMUM SAFETY: BE CERTIFIED FOR AND WEAR A RESPIRATOR AT ALL TIMES WHEN WELDING OR BRAZING.
Supplemental Safety and Health EYE PROTECTION IS REQUIRED AS SET FORTH BY ANSI 257.1. PROTECTIVE CLOTHING AS SET FORTH FOR METAL WORKERS.

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

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Boiling Pt:=5000.C, 9032.F
Melt/Freeze Pt:=3400.C, ######F Spec Gravity:19.3
Solubility in Water:INSOLUBLE
Appearance and Odor:GRAY TO DARK GRAY METAL - NO ODOR.
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES THE POWDER METAL MAY IGNITE ON CONTACT WITH AIR OR OXIDANTS. Stability Condition to Avoid:TUNGSTEN IS A STABLE MATERIAL. THORIUM UNDERGOES SPONTANEOUS RADIOACTIVE DECAY. Hazardous Decomposition Products:NONE.
=====  Toxicological Information ====================================
Toxicological Information:TUNGSTEN THORIA ALLOY SOLIDS, DO NOT CONSTITUTE AN IMPOTANT HEALTH HAZARD. EXPOSURE IS RELATED CHIEFLY TO ANY DUST CREATED. HEAVY EXPOSURE TO THE DUST OR THE INGESTION OF LARGE AMOUNTS OF THE SOLUBLE COMPOUNDS PROCEDURES CHANGES IN BODY WEIGHT, BEHAVIOR, BLOOD CELLS, ETC IN EXPERIMENTAL ANIMALS. THROIUM TUNGSTEN SOLIDS DO NOT CONSTITUTE AN IMPORTANT RADIOLOGICAL HEALTH HAZARD. HOWEVER , RADIOLOGICA L HEALTH HAZARDS MAY EXISTS IF THE MATERIAL IS PRESENT IN A FORM THAT MAY BE INHALED OR INGESTED.
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ANY APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. MATERIAL INTENDED FOR DISPOSAL MAY BE SOLD FOR RECLAIM.
========= MSDS Transport Information ===========
Transport Information:THERE ARE NO SPECIAL DOT REQUIREMENTS ASSOCIATED
WITH THE TRANSPORT OF THIS PRODUCT.
========= Regulatory Information ===========
State Regulatory Information:THE STATE OF CALIFORNIA REQUIRE THE FOLLOWING
INFORMATION. WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.
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 whatsoev

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