



Grandview Materials Inc.

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MATERIAL SAFETY DATA SHEET

FOR TUNGSTEN

ISSUED DATE: JULY 26, 2013

1. COMPOSITION INFORMATION

CHEMICAL: TUNGSTEN
SYNOYM: W
FAMILY: REFRACTORY METAL
CAS REGISTER: 7440-33-7

2. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICAL: N/A
PHYSICAL AND CHEMICAL HAZARDS: N/A from purchased forms. However dust, mist and/or fumes generated during physical or metallurgical treatment may be inhaled, swallowed or come in contact with the skin or eyes.
ADVERSE HUMAN HEALTH EFFECT: N/A except from inhaling dust and/or fumes, or directly swallowing.
ENVIRONMENTAL EFACTS: N/A

3. FIRST AID AND MEASURES

EYE CONTACT: RINSE WITH WATER
SKIN CONTACT: WASH WITH SOAP AND WATER
INHALATION: REFRESH WITH FRESH AIR
INGESTION: VOMIT AND OBTAIN MEDICAL ATTENTION

4. FIRE-FIGHTING MEASURES

EXTUNGISHING: Grinding operations may rarely cause fine dust to ignite. Cover burning material with an inert powder, such as dry sand or limestone, to exclude oxygen.
SPECIFIC HAZARD MEASURES: For a powder fire confined to a small area, use a respirator for toxic dusts and mists; for a large fire, use self contained breathing apparatus.

5. ACCIDENTAL RELEASE MEASURES

WIPE OFF WITH CLOTH

6. HANDLING AND STORAGE

HANDLING: AVOID DUST GENERATING. AFTER CHECKING THE BOXES FOR DAMAGES AND LEAKES, LOAD WITH CARE TO AVOID SHOCK, OVERTURN AND DROPPING
STORAGE: STORE AWAY FROM OXIDIZERS AND MINERAL ACIDS



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7. EXPLOSION CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS: N/A
ENGINEERING MEASURES: N/A
PERSONAL PROTECTION EQUIPMENT: N/A
RESPIRATORY PROTECTION: MASK
EYE PROTECTION: CHEMICAL GOGLES
HAND, SKIN AND BODY PROTECTION: HAND: RUBBER GLOVES
CLOTHING: N/A
FOOTWEAR: RUBBER BOOTS

8. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: SILVERY WHITE
MOLECULAR WEIGHT: 183.85
STATE: TUBE, BAR, WIRE, SHEET, DISC, FOIL & POWDER
MELTING POINT: 6170°F (3410°C)
BOILING POINT: 10652°F (5900°C)
VAPOR PRESSURE: N/A
VOLATILE: N/A
DENSITY: 19.30
INITIAL BOILING: HIGH (REFER TO BOILING POINT)
SOLUBILITY IN WATER: INSOLUBLE

9. PHYSICAL HAZARD (STABILITY AND REACTIVITY)

FLASHING POINT: N/A
AUTOIGNITION: N/A
UPPER AND LOWER EPLOSION POINT: N/A
FLAMMABILITY: N/A
SPONTANEOUS COMBUSTIBILITY: N/A
REACTIVITY: N/A
OXIDATION: N/A
SELF-REACTIVITY: N/A
STABILITY REACTIVITY: STABLE IN GENERAL CONDITIONS

10. TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES: N/A
ALLERGENIC AND SENSITIZING EFFECTS: SLIGHTLY IRRIGATIVE TO HUMAN
SKIN, EYES AND MUCOUSMEMBRANES
ACUTE TOXICITY: N/A
SUB-CHRONIC EFFECTS: N/A
CARCINAGENIC EFFECTS: N/A
MUTAGENIC EFFECTS: N/A
EFFECTS ON REPRODUCTIVITY SYSTEM: N/A
TERATOGENIC EFFECTS: N/A

11. ECOLOGICAL INFORMATION

BIODEGRADABILITY: N/A
BIOACCUMULATION: N/A



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FISH TOXICITY: N/A
OTHER: N/A

12. DISPOSAL CONSIDERATION

RECYCLE. IMPROPER DISPOSAL MAY BE ILLEGAL. REFER TO THE APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS

13. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED BY THE MODE OF TRANSPORTATION. CERTAIN PARTICLE SIZE POWDER MAY BE CLASSIFIED AS CLASS 3, DIVISION 4.1, FLAMMABLE SOLID.

DOT PSN CODE: ZZZ

SYMBOL: N/R
DOT PSN MODIFIER: N/R
HAZARD CLASS: N/R
UN ID NUMBER: N/R
DOT PACKING GROUP: N/R
LABEL: N/R
SPECIAL PROVISION(S): N/R
PACKING EXCEPTION: N/R
NON-BULK PACKAGING: N/R
BULK PACKAGING: N/R
MAX QUANTITY IN PASSENGER AREA: N/R
MAX QUANTITY IN CARGO AREA: N/R
STOW IN VESSEL REQUIREMENTS: N/R
REQUIREMENTS WATER/SP/OTHER: N/R
LAND TRANSPORT ADR/RID & GGVs/GGVE: N/R
SEA TRANSPORT IMDG/GGVSee: N/R
AIR TRANSPORT ICAO-TI & IATA/DGR: N/R
TRANSPORT/FURTHER INFORMATION: NOT A HAZARDOUS PRODUCT PER THE TRANSPORT CLASSIFICATION

14. REGULATORY INFORMATION: N/A

15. OTHER INFORMATION: N/A

Information mentioned here complies with data shown in various technical publications. To take the required safety handling measures, the user should decide to apply the information on his/her responsibility.

Information mentioned here were prepared based on the latest data obtained by our investigation at the time. It is subject to change with the amendment of laws and



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regulations, and the publication of new results of toxic test and the like.

*****End of Record*****