



## Grandview Materials Inc.

8598 Cotter Street  
Lewis Center, Ohio 43035, USA  
sales@grandviewmaterials.com  
Phone: (614) 488-6998 Fax: (614) 467-3000

### MATERIAL SAFETY DATA SHEET

#### FOR MOLYBDENUM

ISSUED DATE: JULY 26, 2013

#### 1. COMPOSITION INFORMATION

CHEMICAL: MOLYBDENUM  
SYNOYM: Mo  
FAMILY: REFRACTORY METAL  
CAS REGISTER: 7439-98-7

#### 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: N/A

#### 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

#### 7. EXPLOSION CONTROL/PERSONAL PROTECTION



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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: 95.94  
STATE: TUBE, BAR, WIRE, SHEET, DISC, FOIL & POWDER  
MELTING POINT: 4730°F (2610°C)  
BOILING POINT: 10040°F (5560°C)  
VAPOR PRESSURE: N/A  
VOLATILE: N/A  
DENSITY: 10.22  
INITIAL BOILING: HIGH (REFER TO BOILING POINT)  
SOLUBILITY IN WATER: N/A

### 9. PHYSICAL HAZARD (STABILITY AND REACTIVITY)

FLASHING POINT: N/A  
AUTOIGNITION: N/A  
UPPER AND LOWER EXPLOSION 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 IRRITATIVE TO HUMAN  
SKIN, EYES AND MUCOUS MEMBRANES  
ACUTE TOXICITY: N/A  
SUB-CHRONIC EFFECTS: N/A  
CARCINOGENIC 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  
FISH TOXICITY: N/A  
OTHER: N/A



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

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