SAFETY DATA SHEET
NAMEOF PRODUCT Molybdenum - Rhenium
SDS DATE: 4/8/2014

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Molybdenum - Rhenium
SYNONYMS:
PRODUCT CODES: (Mo, RE)

MANUFACTURER: Rhenium Alloys
DIVISION:
ADDRESS: 38683 Taylor Parkway, North Ridgeville Ohio 44039

EMERGENCY PHONE: (440) 365-7388
CHEMTREC PHONE: (440) 365-7388
OTHER CALLS: 1-888 - RHENIUM
FAX PHONE: (440) 366 - 9831

CHEMICAL NAME: Molybdenum - Rhenium
CHEMICAL FAMILY: n/a
CHEMICAL FORMULA: Molybdenum - Rhenium

PRODUCT USE: manufacturing
PREPARED BY: Rhenium Alloys

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>% WT</th>
<th>% VOL</th>
<th>SARA 313 REPORTABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo</td>
<td>52 - 59</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Re</td>
<td>41 - 48</td>
<td>ppm</td>
<td>mg/m3</td>
</tr>
<tr>
<td>OSHA PEL-TWA: Mo</td>
<td>n/a</td>
<td>15mg/M3</td>
<td></td>
</tr>
<tr>
<td>OSHA PEL STEL: n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA PEL CEILING: n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV-TWA: Mo</td>
<td>n/a</td>
<td>10mg/M3</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV STEL: n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV CEILING: n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: No long term or cumulative effects known for either molybdenum or rhenium

ROUTES OF ENTRY: n/a

POTENTIAL HEALTH EFFECTS

EYES: n/a

SKIN: n/a

INGESTION: n/a

INHALATION: n/a

ACUTE HEALTH HAZARDS: none

CHRONIC HEALTH HAZARDS: none

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: none
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CARCINOGENICITY
OSHA: n/a
ACGIH: n/a
NTP: n/a
IARC: n/a

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: n/a
SKIN: n/a
INGESTION: n/a
INHALATION: local exhaust if hot working

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: n/a
(% BY VOLUME) LOWER: n/a

FLASH POINT: n/a
F: n/a
C: n/a
METHOD USED: n/a

AUTOIGNITION TEMPERATURE: n/a
F: n/a
C: n/a

NFPA HAZARD CLASSIFICATION
HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION
HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: n/a

SPECIAL FIRE FIGHTING PROCEDURES: n/a

UNUSUAL FIRE AND EXPLOSION HAZARDS: n/a

HAZARDOUS DECOMPOSITION PRODUCTS: n/a

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: NO SPECIAL PRECAUTIONS NEEDED

SECTION 6 NOTES:
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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: AVOID MOIST ENVIRONMENT, EDGES OF SHEET WILL HAVE SHARP EDGES
OTHER PRECAUTIONS: N/A

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

ENGINEERING CONTROLS: N/A
VENTILATION: LOCAL EXHAUST IF HOT WORKING
RESPIRATORY PROTECTION: N/A
EYE PROTECTION: SAFETY GOOGLE IF GRINDING OR CUTTING
SKIN PROTECTION: LEATHER PALM GLOVES TO PREVENT CUTS
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A
WORK HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR DRINKING
EXPOSURE GUIDELINES: N/A

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: SILVER METALLIC SHEET, ROD, TUBE, OR WIRE
ODOR: NONE
PHYSICAL STATE: SOLID
pH AS SUPPLIED: N/A
pH (Other): N/A
BOILING POINT: N/A
   F: N/A
   C: N/A
MELTING POINT:
   F: N/A
   C: 25000C
FREEZING POINT: N/A
   F: N/A
   C: N/A
VAPOR PRESSURE (mmHg): N/A
   @
   F: 
   C:
VAPOR DENSITY (AIR = 1): N/A
   @
   F: 
   C:
SPECIFIC GRAVITY (H2O = 1): 14
   @
   F: 
   C:
EVAPORATION RATE: N/A
BASIS (=1): N/A
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: NO

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE: N/A
BY WT/ BY VOL @
F:
C:

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: N/A

VISCOSITY:
@ F:
C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE X
UNSTABLE

STABILITY: YES

CONDITIONS TO AVOID (STABILITY): TEMPERATURE ABOVE 400 C IN A NON-REDUCING OR OXIDIZING ATMOSPHERE

INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZERS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Above 400c may form MoO3 – irritating to nose, eyes, mucous membranes

HAZARDOUS POLYMERIZATION: will not accure

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: n/a

SECTION 11 NOTES: n/a

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: n/a

SECTION 12 NOTES: n/a

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Retain segregated scrap for reclamation

RCRA HAZARD CLASS: n/a
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SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES: n/a

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Molybdenum - Rhenium
HAZARD CLASS: 0
ID NUMBER: MR 001.02
PACKING GROUP: n/a
LABEL STATEMENT: n/a

WATER TRANSPORTATION

PROPER SHIPPING NAME: Molybdenum - Rhenium
HAZARD CLASS: 0
ID NUMBER: MR 001.02
PACKING GROUP: n/a
LABEL STATEMENTS: n/a

AIR TRANSPORTATION

PROPER SHIPPING NAME: Molybdenum - Rhenium
HAZARD CLASS: 0
ID NUMBER: MR 001.002
PACKING GROUP: n/a
LABEL STATEMENTS: n/a

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): n/a
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): n/a
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): n/a
311/312 HAZARD CATEGORIES: n/a
313 REPORTABLE INGREDIENTS: n/a

STATE REGULATIONS: n/a

INTERNATIONAL REGULATIONS: n/a

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: RHENIUM ALLOYS MAKES NO RESPONSIBILITY REGARDING THE ACCURACY OF THE INFORMATION AND ASSUMES NO RESPONSIBILITY WHICH MAY OCCUR DUE TO THE HANDLING OF THE MATERIAL