1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Rhenium - pellets, wire, rod, foil, sheet, target
Formula: Re
Brand: ALB
Recommended Use: Scientific research and engineering development

Company: ALB Materials Inc
2360 Corporate Circle . Suite 400
Henderson, NV 89074-7739
Web: www.albmaterials.com
E-mail: sales@albmaterials.com
Phone: +1 702 983 3769

2. HAZARDS IDENTIFICATION

GHS Classification (29 CFR 1910.1200): Not classified as hazardous
GHS Label Elements:
Signal Word: N/A
Hazard Statements: N/A
Precautionary Statements: N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient: Rhenium
CAS#: 7440-15-5
%: 100
EC#: 231-124-5

4. FIRST AID MEASURES

General Measures: No special requirements.
INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek medical attention.
INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
SKIN: Remove contaminated clothing, brush material off skin, wash affected area with soap and water. Seek medical attention if symptoms develop or persist.
EYES: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms develop or persist.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation. See section 11 for more information.
Indication of Immediate Medical Attention and Special Treatment: No other relevant information available.

5. FIRE-FIGHTING MEASURES
Extinguishing Media: Use suitable extinguishing agent for surrounding materials and type of fire.
Unsuitable Extinguishing Media: No information available.
Specific Hazards Arising from the Material: This product does not present fire or explosion hazards as shipped. Fine dust from processing may ignite if allowed to accumulate and subjected to an ignition source. May emit toxic metal oxide fumes under fire conditions.
Special Protective Equipment and Precautions for Firefighters: Full face, self-contained breathing apparatus and full protective clothing when necessary.

6. ACCIDENTAL RELEASE MEASURES
Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate respiratory and protective equipment specified in section 8. Isolate spill area and provide ventilation. Avoid breathing dust or fume. Avoid contact with skin and eyes. Eliminate all sources of ignition.
Methods and Materials for Containment and Cleaning Up: Avoid dust formation. Sweep or scoop up. Place in properly labeled closed containers. Scrap can be collected for recycling.
Environmental Precautions: Do not allow to be released to the environment.

7. HANDLING AND STORAGE
Precautions for Safe Handling: Avoid creating dust. Provide adequate ventilation if dusts are created. Avoid breathing dust or fumes. Avoid contact with skin and eyes. Wash thoroughly before eating or smoking. See section 8 for information on personal protection equipment.
Conditions for Safe Storage: Store in a cool, dry area. See section 10 for more information on incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Limits: Rhenium
OSHA/PEL: No exposure limit established
ACGIH/TLV: No exposure limit established
Engineering Controls: Ensure adequate ventilation to maintain exposures below occupational limits.
Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits.
Use good housekeeping and sanitation practices. Do not allow dusts to accumulate. Do not use tobacco or
food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Respiratory Protection: If permissible levels are exceeded, use NIOSH approved dust respirator.

Eye Protection: Safety glasses

Skin Protection: Not normally needed. Wear impermeable gloves, protective work clothing as necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Form: Solid in various forms
Color: Silver gray metallic
Odor: Odorless
Odor Threshold: Not determined
pH: N/A
Melting Point: 3180 oC
Boiling Point: 5627 oC
Flash Point: N/A
Evaporation Rate: N/A
Flammability: N/A
Upper Flammable Limit: No data
Lower Flammable Limit: No data
Vapor Pressure: No data
Vapor Density: N/A
Relative Density (Specific Gravity): 20.53 g/cc
Solubility in H2O: Insoluble
Partition Coefficient (n-octanol/water): Not determined
Autoignition Temperature: No data
Decomposition Temperature: No data
Viscosity: N/A

10. STABILITY AND REACTIVITY

Reactivity: No data
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: None known
Conditions to Avoid: No data
Incompatible Materials: Molten oxidants (nitrates, nitrites), molten alkali oxides in air.
Hazardous Decomposition Products: Rhenium oxide fume.

11. TOXICOLOGICAL INFORMATION
Likely Routes of Exposure: Inhalation, skin, eyes.
Symptoms of Exposure: May cause irritation if dusts or fumes are inhaled or swallowed. Fines/dusts may irritate skin and eyes.
Acute and Chronic Effects: No data
Acute Toxicity: No data
Carcinogenicity: NTP: Not identified as carcinogenic  IARC: Not identified as carcinogenic
To the best of our knowledge the chemical, physical and toxicological characteristics of the substance are not fully known.

12. ECOLOGICAL INFORMATION
Ecotoxicity: No data
Persistence and Degradability: No data
Bioaccumulative Potential: No data
Mobility in Soil: No data
Other Adverse Effects: Do not allow material to be released to the environment without proper governmental permits. No further relevant information available.

13. DISPOSAL CONSIDERATIONS
Waste Disposal Method:
Product: Dispose of in accordance with Federal, State and Local regulations.
Packaging: Dispose of in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION
Shipping Regulations: Not regulated
UN Number: N/A
UN Proper Shipping Name: N/A
Transport Hazard Class: N/A
Packing Group: N/A
Marine Pollutant: No

15. REGULATORY INFORMATION
TSCA Listed: All components are listed.
Regulation (EC) No 1272/2008 (CLP): N/A
Canada WHMIS Classification (CPR, SOR/88-66): N/A
HMIS Ratings: Health: 0  Flammability: 0  Physical: 0
NFPA Ratings: Health: 0  Flammability: 0  Instability: 0
Chemical Safety Assessment: A chemical safety assessment has not been carried out.
16. OTHER INFORMATION

Further information

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