

MATERIAL SAFETY DATA SHEET
PRODUCT NAME OR NUMBER (AS IT APPEARS ON LABEL):

APS-10005-1100
Single Element Beryllium in HNO₃

MANUFACTURER: Alpha Resources, Inc. TELEPHONE: 269-465-5559
P.O. Box 199
Stevensville, MI 49127

MANUFACTURER'S DUNNS NO. 08 383 8045

SECTION I - Product Identification/Hazardous Ingredients _____

Formula: Be Concentration: 1000 µg/mL Molecular Weight: 9.012

TSCA: YES CAS NO: 19049-40-2/7697-37-2

Component: Be Acetate in 2% HNO₃ + 98% H₂O TLV/TWA: 8 h Not Estab.: .002 mg/m³ as Be

STEL: 0.01 mg/m³ as Be PEL: 0.002 as Be Toxicity: N/A

SECTION II - Physical/Chemical Characteristics _____

Boiling Point: 100°C Vapor Pressure (mm): N/A Vapor Density (air+1): N/A

Freezing Point: N/A Specific Gravity (H₂O = 1): 1.0123 Solubility in H₂O: Complete

SECTION III - Fire and Explosion Hazard Data _____

Flash Point: N/A Auto Ignition Temperature: N/A Lower Explosion Level: N/A

NFPA - Rating: N/A Extinguishing Media: Use appropriate

Special Fire-Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Unusual Fires Explosion Hazards: N/A

Toxic Gases Produced: NO_x, Decomposes on heating to give off BeO

SECTION IV - Reacting Data _____

Unstable : () Stable: (X) Stable under ordinary conditions of storage.

Conditions to Avoid: Metals, hydroxides, carbonates, cyanides

Incompatibles: Strong reducing agents

Hazardous Decomposition: NO_x, BeO

SECTION V - Health Hazard Data

Routes of Entry: Inhalation, eye contact, skin contact

Signs and Symptoms of Exposure:

Inhalation: Inhalation of mists may cause mild irritation of respiratory tract. As a suspected cancer hazard in humans because of beryllium component, inhalation is a primary route of exposure.

Ingestion: Symptoms are expected to be less severe than exposure to higher concentrations of acid (hydrochloric or nitric) where symptoms may include burning sensation, vomiting, and diarrhea.

Skin Contact: Symptoms are expected to be less severe than exposure to higher concentration of acid (hydrochloric or nitric) where symptoms may include irritation, redness, pain and burns.

Chronic Exposure: Suspected carcinogenic properties in humans due to inhalation of beryllium compounds.

Carcinogenicity: NTP: Yes IARC: Yes ZLIST: Yes OSHA reg: Yes

Emergency First Aid Procedures: CALL A PHYSICIAN; If swallowed, do not induce vomiting, if conscious give water, milk. In case of contact, flush eyes or skin with plenty of water.

SECTION VI - Precautions for Safe Handling and Use

Special Precautions: Keep container tightly closed

In Case of Spill or Discharge: Remove source of ignition if hydrogen is a hazard. Provide optimum ventilation. Flush to holding area for neutralization.

Disposal Procedures: Follow Federal, State and Local regulations for acid waste.

EPA Hazardous Waste #: N/A

SECTION VII - Protective Equipment

Respiratory Protection: NIOSH approved respirator

Ventilation: Local Exhaust (X) Mechanical ()

Protective Gloves: Proper gloves

Eye Protection: Safety glasses with side shields

Other: Lab coat/apron; vent hood

NOTICE

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

Prepared by: Scot Burns

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