

HIGH-PURITY STANDARDS

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MATERIAL SAFETY DATA SHEET

Lead
Cat. No. 100028-1

Issue Date: 7-7-03

SECTION I - Product Identification/Hazardous Ingredients _____

Formula: Pb Concentration: 1000 µg/mL Molecular Weight: 207.2

TSCA: YES CAS NO: 7439-92-1/7697-37-2

Component: Pb metal in 2% HNO₃ + 98% H₂O TLV/TWA: 8 h Not Estab; 5 mg/m³

STEL: N/A PEL: N/A 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) = 1.0101 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

Pb in 2% HNO₃

SECTION IV - Reacting Data

Unstable : () Stable: (X)

Conditions to Avoid: Metals, hydroxides, carbonates, cyanides

Incompatibles: Strong reducing agents

Hazardous Decomposition: NO_x

SECTION V - Health Hazard Data

Routes of Entry: Inhalation, eye contact, skin contact

Signs and Symptoms of Exposure: Liquid may cause burns to skin and eyes

Medical Conditions Generally Aggravated by Exposure: None identified

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA reg.: No

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 proper disposal.

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 of the product. HPS products are intended for laboratory use only. All products should be handled and used by trained

professional personnel only. The responsibility for the safe handling and use of these products rest solely with the buyer and/or user. Theodore C. Rains, Ph.D. 7-7-03.

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