



Biochemical Diagnostics, Inc.

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MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

TRADE NAME: Sodium Borohydride

Catalog Number: 35061509,
Part of Kits: 35061258, 35061266

Chemical Name: Sodium Borohydride

CAS #: 16940-66-2

Formula: N/A

INGREDIENTS

Components: Sodium Borohydride, 99%

Threshold Limit Values: N/A

PHYSICAL DATA

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: 1.074

Percent Volatile: N/A

Evaporation Rate: N/A

Solubility H₂O: Avoid contact with water, violent reaction will occur.

pH : N/A

Appearance: White Powder

Odor: None

Melting Point: 400C

FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in air % by volume:
Lel: 3.02

Uel: N/A

Flash Point: N/A

Auto Ignition Temp: N/A

Extinguishing Media: Never use water. Use Class D extinguishers or smother with dry sand, limestone or clay.

Special Fire Fighting Procedures: Wear proper protective equipment w/Self contained breathing apparatus

Unusual Fire and Explosion Hazards: Reacts violently with water, liberating highly flammable gases. Flammable solid.

REACTIVITY DATA

Stability: Stable

Incompatibility: Strong oxidizing agents, acids, alcohols, strong bases.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: May decompose on exposure to moist air or water. Liberates flammable, explosive Hydrogen gas. Borane, Boron Oxides

ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Wear suitable clothing. Dissolve the solid in a large volume of water. Carefully add a dilute solution of acetic acid or acetone to the mixture in a well ventilated area. Provisions should be made to safely vent the hydrogen gas given off during the decomposition. Check acidity of the solution and adjust to pH 1 if necessary. Let stand overnight. Neutralize the solution (pH 7). Evaporate the solution and bury the residue in a landfill site approved for hazardous waste disposal.

Waste Disposal Method: Dispose in accordance with state, local and federal regulations.

SPECIAL PROTECTION INFORMATION

Eye Protection: Safety goggles.

Skin Protection: Chemical resistant gloves and other protective clothing.

Respiratory Protection: NIOSH/MSHA approved respirator.

Ventilation: Only use in a chemical fume hood.

Emergency Response - 1-800-255-3924

SPECIAL PRECAUTIONS

Insert Precautions:

Keep container tightly closed, store in a cool dry place. Keep away from heat, sparks, and open flame. Avoid contact with acid.

Contaminated Equipment Precautions: Wash thoroughly with soap and water.

Hygienic Handling and Storage: Wash thoroughly with soap and water.

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion: May be harmful if swallowed. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Corrosive. Flush out mouth and seek immediate medical attention.

Inhalation: Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Remove to fresh air. If difficulty breathing, give oxygen. If not breathing, give artificial respiration. Seek medical attention. Causes burns, corrosive.

Skin Contact: Wash immediately with water discard contaminated clothing. Corrosive, seek medical attention.

Eye Contact: Rinse with copious amounts of water and seek medical attention. Corrosive.

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