



SODIUM BOROHYDRIDE 98%

Material Safety Data Sheet

Emergency Telephone Number
314-982-5000

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P.O. Box M
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PRODUCT IDENTIFICATION:

Synonyms: Sodium tetrahydroborate

Formula CAS No.: 16940-66-2 Molecular Weight: 37.83

Hazardous Ingredients: Not applicable Molecular Formula: NaBH_4

PRECAUTIONARY MEASURES

DANGER! Flammable Solid. TOXIC. CORROSIVE. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

Do not breathe vapor.
Do not get in eyes, on skin, on clothing.
Avoid prolonged or repeated exposure.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In all cases, call a physician. In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Assume adequate flushing of the eyes by separating the eyelids with fingers. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If ingested get immediate medical attention.

SEE SECTION 5.

SECTION 1

Physical Data

Boiling Point: No information found. Vapor Density: No information found.
Melting Point: Decomposes slowly at 400°C Vapor Pressure: No information found.
Specific Gravity: 1.074 Evaporation Rate: No information found.

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SECTION 2

Fire and Explosion Information:

Flammable solid. Supports combustion.

Explosion:

No information found.

Fire Extinguishing Media:

Carbon dioxide, dry chemical powder, alcohol or polymer foam.

Special Information:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 3

Reactivity Data
Stability:

Hygroscopic.

Hazardous Decomposition
Products:

Toxic fumes of carbon monoxide, carbon dioxide and borane, boron oxides.

Hazardous Polymerization:

No information found.

Incompatibilities:

Moist air and water. Dangerous when wet. Strong oxidizing agents. Strong acids.

SECTION 4

Leak/Spill Disposal Information
Spills:

Absorb on sand or vermiculite and place in closed container for disposal. Evacuate area. Ventilate area and wash spill site after material pickup is complete. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Disposal:

Dissolve the solid in (or dilute the solution with) 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 vent safely 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.

Ensure compliance with local, state, and federal regulations.

SECTION 5

Health Hazard Information

A. Exposure/Health Effects:

Toxic. Corrosive. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

First Aid
Inhalation:

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

If ingested, call a physician immediately.

Skin Exposure:

In case of contact, immediately flush skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Discard contaminated shoes. Call a physician.

Eye Exposure:

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Call a physician.

C. Toxicity Data:

ATECS# ED3325000

SECTION 6

Occupational Control Measures

Wear appropriate OSHA/MSHA-approved respirator. Chemical resistant gloves and other protective clothing. Safety goggles.

Safety shower and eye bath.

Use only in a chemical fume hood.

Face shield (8-inch minimum).

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

Avoid prolonged or repeated exposure.

Wash thoroughly after handling.

SECTION 7

Storage and Special Information

Keep tightly closed. Moisture-sensitive. Store in a cool dry place.

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