

MATERIAL SAFETY DATA SHEET (MSDS)**BUFFER SOLUTION pH 9.0 (BORATE)****1. Product Identification**

Synonyms: None

CAS No.: Not applicable to mixtures.

Product code: SI0301800500

Molecular Weight: Not applicable to mixtures.

Chemical Formula: Not applicable to mixtures.

2. Composition/Information on Ingredients

Boric acid (H₃BO₃) and sodium tetraborate (Na₂B₄O₇) in aqueous solution, in total less than 0.7 %.

CAS no. (H₃BO₃): 10043-35-3 EC no. (H₃BO₃): 233-139-2

Molar mass (H₃BO₃): 61.83 g/mol

Molecular formula: BH₃O₃

CAS no. (Na₂B₄O₇): 1330-43-4 EC no. (Na₂B₄O₇): 215-540-4

Molar mass (Na₂B₄O₇): 201.22 g/mol

Molecular formula: B₄Na₂O₇

3. Hazards Identification

Emergency Overview As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Potential Health Effects

Inhalation: No adverse health effects via inhalation.

Ingestion: Not expected to be a health hazard via ingestion. Large oral doses may cause irritation to the gastrointestinal tract.

Skin Contact: Not expected to be a health hazard from skin exposure.

4. First Aid Measures

Not expected to require first aid measures.

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

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Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert

Material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered. Personal Respirators (NIOSH Approved): Not expected to require personal respirator usage.Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid.

Odor: Odorless.

Solubility: Complete (100%)

Specific Gravity: No information found.

pH: 9

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: No information found.

Hazardous Polymerization: Will not occur.

Incompatibilities: No information found.

Conditions to Avoid: Heat.

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No LD50/LC50 information found relating to normal routes of occupational exposure.

---NTP Carcinogen---

Ingredient Known Anticipated IARC Category

Potassium Phosphate Monobasic No No None

(7778-77-0)

Sodium Phosphate, Dibasic No No None

(7558-79-4)

Water (7732-18-5) No No None

12. ECOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. DISPOSAL

DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

14. TRANSPORTATION

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

15. Regulatory Information

SARA Title III: N/P

Federal Regulatory: N/P

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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