MATERIAL SAFETY DATA SHEET

SECTION I  NAME

Product: Sodium Borate, Decahydrate

Chemical Synonyms: Sodium Tetraborate; Borax

Formula: Na₂B₄O₇·10H₂O

Unit Size: up to 3 Kg.

C.A.S. No.: 1303-96-4

SECTION II  INGREDIENTS OF MIXTURES

Principal Component(s) % by Volume

Sodium borate, decahydrate 100%

SECTION III  PHYSICAL DATA

Melting Point (°F): 62°C (143°F)

Boiling Point (°F): Not determined.

Vapor Pressure (mm Hg): Not determined.

Vapor Density (Air=1): Not determined.

Solubility in Water: 5.81% @ 20°C, 65.63% @ 100°C.

Appearance & Odor: White crystalline or powder; no odor. Efflorescent in warm, dry air.

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Non-combustible.

Flammable Limits in Air % by Volume

N/A

Extinguisher Media: None required. Product inherent fire retardant.

SECTION VI  REACTIVITY DATA

Stability: Unstable

Conditions to Avoid: Excessive temperature and heat.

Incompatibility (Materials to Avoid): None.

Hazardous Decomposition Products: Boron oxide and sodium oxide.

Hazardous Polymerization: Conditions to Avoid: Not applicable.

SECTION VII  SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Sweep up and place in a suitable container. Dissolve in water and flush to sewer with copious amounts of water.

Waste Disposal Method:
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII  SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type): None should be required in normal laboratory use. If dusty conditions prevail, use a NIOSH/MSHA-approved respirator.

Ventilation: Local Exhaust Recommended. Special No.

Protective Gloves: None needed unless skin is abraded. Eye Protection Chemical safety goggles.

SECTION IX  SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing:
Store in a cool, dry place. Wash thoroughly after handling. WARNING! This product contains trace amounts of arsenic, a chemical known to cause cancer.

Other Precautions:
Gloves are usually not necessary unless open skin is present. Remove and wash contaminated clothing.

Revision No. 7 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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