FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

MSDS #: 712.00

Revision Date: November 28, 2012

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Borate, Tetra

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Sodium borate, tetra

Synonym: Borax; Sodium pyroborate; Sodium tetraborate decahydrate

CAS#: 1303-96-4

SECTION 3 — HAZARDS IDENTIFICATION

White crystals or powder. Odorless.

Slightly toxic by ingestion, inhalation, and skin absorption. Irritating to body tissues. Avoid all body

tissue contact.

FLINN AT-A-GLANCE

Health-1 Flammability-0 Reactivity-0

Exposure-1
Storage-1

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid. NFPA Code

None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates. Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf Bag.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 5 mg/m³ (NIOSH/ACGIH)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White, odorless crystals or powder.

Solubility: Soluble in water and glycerol; not alcohol.

Formula: Na₂B₄O₇ 1OH₂O Formula weight: 381.373 Melting point: 75 °C (decomposes)

Specific gravity: 1.73

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Material efflorescent. Store in a Flinn Chem-Saf bag.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant ORL-RAT LD_{50} : 2660 mg/kg Chronic effects: N.A. IHL-RAT LC_{50} : N.A. SKN-RBT LD_{50} : >2 g/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: N/A UN number: N/A N/A = Not applicable

<u>SECTION 15 — REGULATORY INFORMATION</u>

TSCA-listed, EINECS-listed (215-540-4).

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.