TECHNICAL DATA SHEET (TDS)

Product Name: Disodium Tetraborate Pentahydrate

Common Name: Borax Pentahydrate **Fertilizer Grade:** 15% Boro (Boron)

1. Product Identification

Chemical Formula: Na■B■O■-5H■O

• Molecular Weight: 291.3 g/mol

• HS Code: 2840.19.10 • CAS Number: 12179-04-3

• Appearance: White crystalline powder or granules

2. Typical Properties

Property	Value
Boron (B) content	14–15 %
Purity (B ■ O■ basis)	≥ 48 %
Sodium Oxide (Na ■ O)	~21–22 %
Water of Crystallization	~30 %
Solubility in water (20 °C)	~3.7 g/100 mL
Bulk Density	1.7 – 1.8 g/cm³
pH (1% solution)	9.2 – 9.3 (alkaline)

3. Agricultural Applications

- Micronutrient fertilizer (Boron source)
- Corrects Boron deficiency in soil and crops
- Enhances root development, pollination, and fruit setting
- Increases crop yield and quality
- Suitable for foliar spray, fertigation, and soil application

4. Recommended Dosage (general guideline)

• Field crops: 1-2 kg/acre

• Fruits & vegetables: 2-3 kg/acre

• Foliar spray: 0.1–0.2% solution (1–2 g per liter of water)

(Note: Actual dosage may vary depending on crop type, soil condition, and agronomist advice.)

5. Packaging & Storage

- Packaging: 25/50 kg PP woven bags with inner liner
- Storage: Store in cool, dry place away from acids and moisture

6. Safety & Handling

- · Avoid inhalation of dust and direct contact with eyes/skin
- Use gloves, goggles, and mask during handling
- · Wash hands thoroughly after use

Disclaimer: The above information is provided as a guide. For precise usage, consult local agricultural experts or agronomists.