

## Sodium Perborate Tetrahydrate

### Description

Sodium Perborate is manufactured by reaction of sodium tetraborate, hydrogen peroxide, and sodium hydroxide. Sodium perborate tetrahydrate is an important ingredient of many household laundry detergent powders, laundry bleach additive products and automatic machine dishwasher powders. Unlike sodium percarbonate and sodium perphosphate, perborate is not just an addition compound of peroxide, but contains true peroxygen bonds, Sodium perborate tetrahydrate has good storage stability when blended with many ingredients of formulated products for use in temperate climates.

### Technical Information

- Chemical Name: Perboric acid, sodium salt, tetrahydrated
- Synonyms: Sodium peroxyborate, sodium peroxoborate, PB4, PBST
- Molecular Formula: NaBO<sub>3</sub>·4H<sub>2</sub>O
- Molecular Weight: 153.86
- CAS Number: 10486-00-7

Product Properties	Standard Specifications
Purity, %	98 Min.
Active Oxygen, %	10.0-10.3
Bulk Density, g/L	550~800
Wet Stability, %	Min. 85
Iron, ppm	Max. 10
pH Value	9.5-10.5
Particle Size Distribution, %	
On 0.850mm	5 Max.
Through 0.150mm	10 Max.
Appearance	White granular solid, free-flowing
Packing	25 PP-PE bag

### Applications

Sodium Perborate tetrahydrate is similar to sodium percarbonate as a famous oxygen bleach agent. It offers many of the functional benefits as liquid hydrogen peroxide in a stable solid form. Its oxidative power improves the cleaning, bleaching, stain removal and deodorizing performance of powder detergent formulations, all fabric dry bleaches, denture cleaners, automatic dishwasher detergents and various institutional and industrial laundry products.

### Handling and Storage

#### Storage

- Oxidizer. Store in a cool, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat. Store at temperatures less than 40°C.

## TECHNICAL DATA SHEET 产品规格单

- Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
- Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation.
- Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.

### Handling

- Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- Prevent contact with combustible or organic materials.
- Label containers and keep them tightly closed when not in use.
- Wash thoroughly after handling.

### First-aid Measures

- Inhalation-Remove affected person to fresh air. Seek medical attention if effects persist.
- Eye contact-Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- Skin contact-Wash affected skin with soap and mild detergent and large amounts of water.
- Ingestion-If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not inducing vomiting.

### Shipping Information

- Proper Shipping Name: Sodium Perborate Tetrahydrate
- UN Number: Not Allocated
- Hazard Class: N/A
- Labels: N/A
- Packing Group: N/A

**Please read the MSDS for this chemical before using**