



TECHNICAL DATA SHEET

Product:	Sodium perborate tetrahydrate (Powder)
Synonyms:	Perboric acid, sodium salt, tetrahydrate
CAS#	10486-00-7
Formula:	$\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$
Product Description:	Sodium perborate tetrahydrate is a granular or powder, white crystalline solid with a slippery or soapy feel.
Packaging:	Sodium perborate tetrahydrate is available in 10 kg (22 lb.) plastic bags, 1000 kg (2200 lb.) bulk bag packaging.
Applications:	<ul style="list-style-type: none">• Bleaching agent• Detergents• Germicide• Laboratory reagent• Electroplating agent• Agent in developing vat dyes• Soaps• Antiseptic• In denture cleaners• Agent in neutralizing cold wave preparation• Cleaning products• Tooth bleaching• Eye drops
Precautions:	<p>Sodium perborate tetrahydrate is chemically stable under normal condition of storage, however, it is advised to store Boric acid under dry, cool and steady temperature conditions. During storage and transport avoid any wide variation in temperature. With temperature cycling and exposure to humid environment, Sodium perborate tetrahydrate shows tendency for caking.</p> <p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Wash face, hands and any exposed skin thoroughly after handling.</p>

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Do not eat, drink or smoke when using this product.
Avoid breathing dust.
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces.
No smoking
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles
Wear protective gloves/ protective clothing/ eye protection/ face protection

Typical properties of Sodium perborate tetrahydrate:

Physicochemical Information	
Colour	White
Odour	Odourless
Density	1.73 g/cm³
Vapor Pressure	1.3 mbar (30 °C)
Melting Point	60 °C (Decomposition)
pH Value	10 (15 g/l, 20 °C)
Bulk Density	800 kg/m³
Solubility	23 g/l
Storage	+ 5 °C to +30 °C

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Specifications	
Assay	$\geq 99 \%$
Boron (B)%	8.86 %
Sodium (Na)%	14.8 %
Available O ₂ (%)	$\geq 10 \%$
Fe (Iron)%	≤ 0.002

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