



# PRODUCT DATA SHEET

Issued: November 2010

**Revision Number: 1** 

# SODIUM PERBORATE MONOHYDRATE

### 1. IDENTIFICATION OF THE PRODUCT:

Trade name:

SODIUM PERBORATE MONOHYDRATE

Substance name:

PERBORIC ACID, SODIUM SALT, MONOHYDRATE

IUPAC name:

Sodium perborate

Molecular formula:

NaBO<sub>2</sub>(OH)<sub>2</sub> 99,8 g/mol

Molecular Mass: CAS No.:

10332-33-9 (11138-47-9)\*

EINECS No .:

234-390-0

# Description

Sodium perborate is an inorganic peroxide which is produced in the monohydrate form. Sodium perborate monohydrate is a white, free-flowing, crystalline powder. It is well soluble in water giving an alkaline solution with oxidising properties.

## 2. COMPOSITION:

Parameter	CAS No.	EC No.	Name	Range
Constituent	10332-33-9	234-390-0	Sodium perborate monohydrate,	> 95,0 %
	11138-47-9		Perboric acid, sodium salt	
Impurities	1330-43-4	215-540-4	Disodium tetraborate	< 2,0 %
Additives (stabilizer)	7487-88-9	231-298-2	Magnesium sulphate	< 1,0 %

### Remark - Composition for impurity Disodium tetraborate, anhydrous:

Disodium tetraborate EC No. 215-540-4, CAS No.: 1330-43-4 is on the Candidate list of SVHC for the inclusion in Annex XIV (Decision number ED/30/2010); this implies obligations to producers, importers and suppliers to safeguard and report safe use conditions when the substance is contained in articles or mixtures at concentrations above 0.1 % (w/w).

#### Classification & Labelling:

According to Regulation (EC) 1272/2008, Annex VI.

Name: Perboric acid, sodium salt, monohydrate, containing >= 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm

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#### 3. USE OF THE PRODUCT:

Sodium perborate monohydrate is an important ingredient of laundry detergent powders, bleaching additives and dishware detergent powders. It is utilized alone or in combination with sodium perborate tetrahydrate in compact laundry detergent powders, laundry detergent tablets and dishware detergent tablets.

The firmness and stability of sodium perborate monohydrate allow for preparation of stable powder mixtures. Besides being a bleaching agent, sodium perborate monohydrate also provides bactericidal activity, odour removal from the washing water, stability in combination with numerous ingredients of washing powders and alkalinity that reduces water hardness.

Sodium perborate monohydrate is efficient at lower temperatures than sodium perborate tetrahydrate. Its efficiency is boosted at lower temperatures with the addition of TAED activator that provides for *in situ* formation of peracetic acid with powerful oxidative and disinfection action.

Because of its bleaching, oxidising and disinfective properties it is used by the chemical, textile and cosmetics industry as well.

#### 4. OTHER INFORMATION:

# Packaging:

Sodium perborate monohydrate is delivered in the following packaging units:

0 20

PE Bags

o 500 kg

Flexible IBC (PP big-bag)

o 1.000 kg

Flexible IBC (PP big-bag)

o Bulk

### Storage and handling

Sodium perborate monohydrate should be stored in its original packaging in a cool, dry place (T below 40 °C). The product must not be exposed to sunlight or kept near a source of heat. Water, moisture, heat and catalysts cause decomposition during which oxygen is formed and the product loses its activity. If stored under the conditions described, it is stable and the loss of active oxygen is minimal (1-2 % per year).

If pneumatic transport is used, the conveying air should be clean and dry. We recommend the following parameters:

Air temperature

max. 30 °C

Relative Humidity

max. 50 %

(measured at maximum operating pressure)

Screw and belt conveyors may also be used to transport the material over short distances.

Sodium perborate monohydrate dust is irritating to the eyes, mucous membranes, and respiratory tract. Use protective clothing and equipment when handling the material (mask, glasses). In case of eye contact, flush eyes with plenty of water. If swallowed, rinse mouth with water and drink plenty of water.

When handling Sodium perborate monohydrate local and International regulations should be taken into account.

For additional information kindly contact our Product Techical Service.

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