

## GPS "Good-Buffer System"

The GPS is a sustainable, toxicologically and ecologically safe additive system as a buffer system for paints and coatings.

"GOOD PUFFER" for technical solutions for pH stabilization.

The new priming additive **GPS** has supramolecular linking structures caused by strongly pronounced synergistic effects in the interaction of harmless individual components, to the already known microbiological activity profiles.

### Properties:

- it provides pH value stabilization in aqueous systems in the pH range 8,5-11,4
- it is biocide-free
- It suppresses microbiological growth in aqueous systems
- it is toxicologically and ecologically harmless
- it has a high chemical stability
- it is completely label-free

### Composition:

**a)** The active buffer substance is Good's buffering agent TRICIN (N-(Tris((hydroxymethyl)methyl)glycine), which shows its buffering effect precisely in this pH range. Buffering effect in this pH range. Good's buffer systems are characterized by positive physiological properties, high chemical stability and excellent compatibility with other system components.



**b)** In the form of a water-soluble complex supports the buffer activity and significantly contributes to the suppression of microbiological growth. In contrast to biocides, which attack the chemical structure of microorganisms, denature them and thus kill them, the polymer in combination with Tricin forms a supramolecular structure that merely absorbs any microorganisms. However, the absorbed microorganisms cannot multiply in this environment!

**Characteristics:**

The values given do not represent a specification, but are product-specific values.

**Specifications:**

Color: opaque liquid

Density: 1.125 g/ml

pH value 8.5 - 11.4

**Paints and varnishes:**

Recommended dosage: 0.5-1.8% in delivery form on total formulation. The additive can be added at any point in the production process. A division (2/3 into the regrind and 1/3 into the topcoat) can increase the effectiveness of the product in some cases.

**Adhesives:**

Recommended dosage: 0.8-1.8% in delivery form on total formulation. The addition of the additive can be added at any point in the production process.

**Storage and transportation:**

Separation or turbidity possible during storage and transportation below 5 °C. This does not affect the quality of the additive.