

## PRODUCT SPECIFICATION

### Sodium Metabisulphite Powder

909010

Description: Sodium Metabisulphite Powder  
 Use: De-chlorination of Ballast Water  
 CAS No: 7681-57-4  
 Formula:  $\text{Na}_2\text{S}_2\text{O}_5$   
 Quality: Product supplied to these specifications must meet the requirement for food additive E223 under EC directive 2008 / 84

**Note:** It is strongly advised that supporting documentation or communication in support of the above specification is received from the supplier before progressing supply.

General Properties: (1mg/kg = 1ppm)

Property	Specification
Appearance	White crystals or crystalline powder
Purity as $\text{Na}_2\text{S}_2\text{O}_5$	>95%
Odour	Sulphurous
pH (10% solution)	4.0 to 5.5
Solubility	Soluble in water
Freezing point (40% solution)	
Thiosulphate	Not more than 0,1 % based on the $\text{SO}_2$ content
Iron	Not more than 50 mg/kg based on the $\text{SO}_2$ content
Selenium	Not more than 10 mg/kg based on the $\text{SO}_2$ content
Lead	Not more than 5 mg/kg
Heavy metals (as Pb)	Not more than 10 mg/kg
Arsenic	Not more than 3 mg/kg
Mercury	Not more than 1 mg/kg
Bulk Density	1.20 to 1.36 $\text{kg/m}^3$
Packaging	25kg bag

#### De-chlorination

Make up a 40% solution in water and apply a dose rate of 3.7ml/m<sup>3</sup> of solution for each 1ppm of free chlorine in the water to be treated. Use a suitable free chlorine test kit to monitor reduction in free chlorine levels. For continuous applications, a suitable storage tank and chemical dosing pump should be used.

#### Product Safety Information

Store in a cool, dry environment Sodium metabisulphite has very low toxicity but routine safety precautions should be practiced. Rubber gloves, safety goggles and protective clothing is recommended. Protect solutions from freezing.

The chemical must be properly labeled in compliance with the present national and international laws and regulations concerning transport, health, safety and environment. The supplier must provide a Safety Data Sheet.

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