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SODIC ATAGOL

GENERAL CHARACTERISTICS

Sodic Atagol is the ideal preservative for lining paste glues, as well as animal gelatines, casein solutions and adhesives based on natural gums like Gum Arabic.

Sodic Atagol proposes itself as the substitute for commonly used preservatives like the toxic Phenol, or short-lasting preservatives like Kalinite (Potassium Alum) and Potassium Sorbate.

Phenol has a deceitful, relatively high DL50 (317 mg/kg). In reality, its toxicity is related to its inhalation (TLV/TWA=5 ppm!), and it has resulted positive in mutagenic tests, with effects on reproduction, besides being a burning agent and with rapid absorption through skin.

COMPOSITION OF THE ACTIVE SUBSTANCE

Sodic Atagol, also called parachlorometacresol, is the sodium salt of 4-chloro-3-methylphenol.

TECHNICAL AND TYPICAL DATA ANALYSIS

Appearance:	whitish or yellowish flakes
Density at 20 °C:	1.360 g/ml
Melting point:	94 °C
DL ₅₀ :	1300 gm/Kg
pH of aqueous solution:	11
Solubility:	580 g/l in water, it is also soluble in Ethyl and Isopropyl Alcohol

FIELDS OF APPLICATION AND SPECTRUM OF ACTIVITY

Numerous biologic tests conducted in the laboratory have shown the efficiency of **Sodic Atagol** in respect to many fungal species (such as Penicillium glaucum, Aspergillus niger Chaetomium globosum), and also to many in bacterial strains (Staphilococcus aureus, Bacterium subtilis, Escherichia coli, Bacterium punctatum, Pseudomonas aeruginosa, ...).

DOSAGE

The low concentration of **Sodic Atagol** necessary to carry out the effect (0.2% in weight of the glue's total quantity) is such that the adhesive characteristics of the compounds to which it is added are not compromised, a problem which instead arises with quaternary ammonium salts (Preventol RI 80, New Des). For Casein solutions it is necessary to raise the concentration to 2%.

HANDLING AND STORAGE

Due to its extremely low vapour pressure at ambient temperature, there is no risk of vapour inhalation.

For handling the powdered product you should observe the usual precautions, such as the use of gloves, and avoid inhaling the dust.

If kept away from sources of light and dry the product is stable indefinitely.

PACK SIZE

Sodic Atagol is available in packs of 1 kg.

C.T.S. S.r.l. is able to provide to the **Public Institutions**, who are interested, a complete copy of the *Technical report on laboratory testing* made on the product **SODIC ATAGOL**.

Information contained in this data sheet is based on our state of knowledge and on laboratory testing at the above-specified date.

The User should determine, by preliminary tests, the suitability of the product for his intended purpose, and should observe the laws and regulations regarding health and safety.

C.T.S. S.r.l. guarantees the constant quality of the product but is not accountable for any damages caused by the incorrect use of a material. The product is intended for professional use only. In addition, the components and packaging can change at any time, without any obligation of prior notice.