

Sodium Omadine™ 2000 Antimicrobial

Summary

Sodium Omadine™ 2000 Antimicrobial is a proprietary blend based on the antimicrobial active sodium pyrithione (CAS# 3811-73-2). This product is an efficient antibacterial and antifungal preservative for aqueous compositions such as latex emulsions, paints, water-based adhesives, aqueous slurries, mineral add mixtures, tape joint compounds, patching compounds, pigment dispersions, aqueous-based inks and colorants.

Sodium Omadine™ 2000 Antimicrobial is registered for use with the United States Environmental Protection Agency (US EPA Reg. No 1258-1238) for a variety of industrial use patterns. Additional information can be found on the label.

General

Many aqueous industrial compositions can support the growth of a wide range of bacteria and fungi. These organisms can chemically destroy the components of these formulations and render them unusable. High solids formulations are especially prone to fungal contamination and cannot be suitably controlled by bactericides. Sodium Omadine™ Antimicrobial is effective against both types of microbes and will prevent the growth of even high concentrations of fungal organisms.

Sodium Omadine™ 2000 Antimicrobial effective control of a wide range of organisms at economic concentrations, demonstrates long-term storage stability and compatibility in aqueous-based compositions, and is in an easy to use liquid form. Sodium Omadine™ 2000 Antimicrobial will perform best in pH aqueous systems ranging from 7.0 to 12.0. Sodium Omadine™ 2000 Antimicrobial can be used in clear, transparent product systems and will not impart any color or clarity changes to those products.

Properties of Sodium Omadine™ 2000 Antimicrobial

Composition	10% active blend of sodium pyrithione in monoethanolamine
Physical form and Appearance	Clear yellow solution
Viscosity @ 25°C	20 cps
Specific Gravity@ 25°C	1.12
Density @25°C	9.3 lb. gal
pH @25°C	11–12
Solubility	Complete in aqueous systems
Storage Stability	Stable under normal storage conditions down to 0°C. If frozen allow to thaw, and stir well before use.
Compatibility	Incompatible with strong acids, oxidizing and reducing agents. Formulation is stabilized against transchelation in the presence of transition metals.

Directions for Use

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Sodium Omadine™ 2000 Antimicrobial is an effective preservative in most aqueous compositions. Typical applications, and the suggested range of concentrations on which trials can be based, are:

Applications	Suggested Concentrations
Product Matrix	w/w% Sodium Omadine™ 2000 Antimicrobial based on total weight of product
Polymer Latex: polymer lattices based on acrylate, butadiene, PVA and styrene for various applications	0.05–0.4
Paints and other Water-Based Coatings:	0.05–0.5
Adhesives: carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatins and latex	0.10–0.40
Aqueous-Based Slurries: mineral slurries such as calcium carbonate clay and titanium dioxide	0.10–0.40
Tape Joint Compound: wallboard, spackling and drywall joint products	0.10–0.40
Pigment Dispersions, Inks and Colorant:	0.10–0.40
Water-Based Chemical and Mineral Add Mixtures used in Concrete:	0.1–0.4

General Recommendations

The concentrations required to give protection depend on several factors. These include the susceptibility of the system to microbiological degradation, the extent to which microorganisms can gain access, the species involved, pH, temperature, and the length of time for which protection is required. For this reason we suggest that compatibility/stability trials and microbiological challenge testing be carried out in advance of use.

Generally speaking, for the protection against bacterial and fungal attack, a concentration within the range of 0.05–0.4% Sodium Omadine™ 2000 Antimicrobial is considered sufficient.

Technical Service

Technical Service is available to facilitate further use of Lonza Antimicrobials. If you have a specific question, or need further information, please contact your Lonza account representative.

Use biocides safely. Always read the label and product information before use.

Europe

Lonza Ltd
Muenchensteinerstrasse 38
4002 Basel, Switzerland
Tel +41 61 316 81 11
materialsprotection@lonza.com

USA

Lonza Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004
Tel +1 678 624 5800
materialsprotection@lonza.com

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