

# POLYPHASE® S99

## Dry-Film Preservative

Paints & Coatings/US

EPA Registration No.: 5383-150

Polyphase® S99 is a water dispersion of biocides effective against fungal and algal organisms. Polyphase® S99 is a free-flowing, zero VOC, aqueous dispersion product.

### Application & Use

Polyphase® S99 is useful for the dry-film protection of various systems in applications such as paints, coatings, stuccos, wood protective stains, caulks, sealants, and other industrial applications. Polyphase® S99 is intended for waterborne systems.

This product is suitable for systems with a pH of 3 - 12 and at a temperature up to up to 60°C.

### Product Highlights

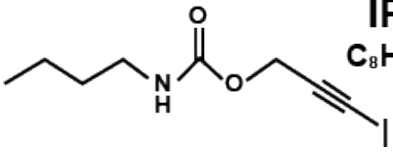
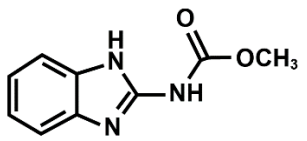
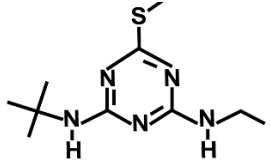
- Broad-spectrum protection
- Low leaching fungicides & algacide
- Retains efficacy under alkaline conditions
- Prop 65 Free

### Physical Properties

The following are typical properties of Polyphase® S99; they are not to be considered product specifications.

<b>Appearance:</b>	Off-white, free-flowing dispersion
<b>Specific Gravity, 25°C:</b>	1.05
<b>pH (as is)</b>	7
<b>Viscosity, 25°C</b>	4
<b>Solubility</b>	Dispersable in water

### Active Substance

3.0%	3-Iodo-2-propynyl butyl carbamate	IPBC	 <p><b>IPBC</b> C<sub>8</sub>H<sub>12</sub>INO<sub>2</sub></p>
9.0%	Methyl 2-benzimidazolecarbamate	BCM	 <p><b>BCM</b> C<sub>9</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub></p>
10.0%	2-(Tert-butylamino)-4-(ethylamino)-6-(methylthio)-s-triazine	Terbutryn	 <p><b>Terbutryn</b> C<sub>10</sub>H<sub>19</sub>N<sub>5</sub>S</p>

## Function/Activity

The following suggested use levels are based on laboratory tests and are typical for the applications indicated. The actual level required for your system is formulation specific. The selection of the individual components of the formulation, the substrate to be coated, and the environment in which the coating will be exposed all have an influence on the amount of protection needed. Suggested use levels are reported as percentage of the end-use product.

### Paint and Coatings

Polyphase® S99 has been shown to provide excellent control of fungi and algae in water-based paints and coatings. In hot, humid areas where mold and mildew are a particularly severe problem, higher application levels are suggested. It should be added with good agitation at the end of the manufacturing cycle.

### Wood Protective Stains (Water-Based)

Polyphase® S99 offers broad spectrum protection against the discoloration of the protective film due to fungal and algal organisms. Polyphase® S99 does not change the appearance of wood or have any influence on its coatability. Polyphase® S99 is recommended only for pigmented wood stains. For clear and semi-transparent stains, performance tests should be conducted to ensure that Polyphase® S99 does not affect the transparency of the final coating.

### Caulks and Sealants

Polyphase® S99 can be used to prevent the growth of fungal and algal organisms in both wet and cured adhesives, caulks, and sealants. Polyphase® S99 should be added towards the end of the production cycle with good agitation.

Function	% Wt/Wt
Paint	0.70 - 2.00%
Wood Protective Stains	0.50 - 2.00%
Masonry Coatings	0.20 - 1.00%
Roof Coatings	0.70 - 3.00%
Caulks & Sealants	0.50 - 1.50%
Stucco	0.50 - 1.50%

## Formulating Considerations

Field testing of final products under actual use conditions is strongly recommended. Metal containers for formulated products should always be lined. Do not store formulated products for prolonged periods in iron or steel containers. For paint and coating applications, add Polyphase® S99 at the end of the manufacturing cycle after final pH adjustments have been made (not during the grind). Due to various possibilities of application and different methods of processing, it is advised to check compatibility in the development of new products. Contact your Arxada representative for assistance.

Shelf-life is 12 months from date of manufacture.

## Packaging

Polyphase® S99 is packaged in:

Package Type	Net Weight
Large Drum	463 lbs / 210 kg

## Product Safety & Additional Information

For handling, storage, health, and safety information and disposal procedures, as well as additional information, please refer to the Safety Data Sheet (SDS) and label.



For more information visit:  
[www.arxada.com](http://www.arxada.com)

**Use biocides safely. Always read the label and product information before use.** All product information corresponds to Arxada's knowledge on the subject at the date of publication, but Arxada makes no warranty as to its accuracy or completeness and Arxada assumes no obligation to update it. Product and safety information is intended for use by recipients experienced and knowledgeable in the field, who are capable of and responsible for independently determining the suitability of ingredients for intended uses and to ensure their compliance with applicable law. Proper use of this information is the sole responsibility of the recipient. Republication of this information or related statements is prohibited. Information provided by Arxada is not intended and should not be construed as a license to operate under or a recommendation to infringe any patent or other intellectual property right. No claims are made herein for any specific intermediate or end-use application. The information contained in this document is proprietary and confidential. The recipient shall keep this document strictly secret using at least the same level of measures as it uses to protect its own confidential information, but in any case at least commercially reasonable own confidential information, but in any case at least commercially reasonable and

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