

**INKS:**

**TROYSAN® POLYPHASE™ P-20T** may be used in aqueous based ink solutions for protection of these solutions against the attack of fungal organisms. It is recommended that **Polyphase™** be added at the end of the production cycle.

**Polyphase™** will generally impart protection when used at levels of 0.1 - 6% based on the formula weight.

**ADHESIVES:**

**TROYSAN® POLYPHASE™ P-20T** can be used as an additive to caulk and adhesive formulations to prevent the growth of fungal organisms in the material in both the wet stage and once the film has dried.

Recommended levels are between 0.1-0.4% based on the formula weight. **Polyphase™** should be added toward the end of the production cycle with good agitation.

**STORAGE AND HANDLING:**

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**TROYSAN® POLYPHASE™ P-20T** should not be stored at temperatures below 20° F.

Store drums in an upright position with all bungs tightly closed. Do not reuse empty drums. Dispose of in accordance with local standards. Complete safety and handling information will be found in the MSDS.

**NOTE:**

The information and data given herein are based upon tests and reports considered to be reliable, and are believed to be accurate, but are in no way guaranteed. No warranty, expressed or implied is made or intended. The adoption for use should be based upon the customer's own investigations and appraisal, and no recommendation should be construed as an invitation to use material in infringement of patents.

**TYPICAL PROPERTIES:**

Active Ingredient . . . . .	20% min. 3-iodo-2-propynyl butyl carbamate
Appearance . . . . .	Amber mobile liquid
Color . . . . .	Clear yellow
Viscosity (Gardner Bubble) 25°C . . . . .	A-5
Specific Gravity 25°C . . . . .	1.030
Lbs./Gal. . . . .	8.60
Odor . . . . .	Characteristic
Solubility . . . . .	Soluble in aromatics and alcohols.

# TROYSAN POLYPHASE P-15H

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

## CAUTION

Avoid contact with skin, eyes, or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

### STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water. Get medical treatment.

If swallowed: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink a large quantity of water. Avoid alcohol. Get medical attention.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwater.

A FUNGICIDE FOR USE IN AQUEOUS AND SOLVENT SYSTEMS SUCH AS OLEO-RESINOUS AND LATEX PAINTS, WOOD PRODUCTS, CUTTING OILS, TEXTILES, PAPER COATINGS, INKS, PLASTICS, ADHESIVES, AND CANVAS AND CORDAGE

E.P.A. REG. NO. 5383-63

E.P.A. EST. NO. 5383-NJ-1

## INDUSTRIAL FUNGICIDE

### ACTIVE INGREDIENTS:

3-Iodo-2-Propynyl Butyl Carbamate.....	15%
Inert Ingredients.....	75%
Total	100%

KEEP OUT OF REACH OF CHILDREN

## CAUTION

SOLD FOR INDUSTRIAL USE ONLY

See Side Panel for Precautionary and First Aid Statements

**TROY CHEMICAL CORPORATION**

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ings from the growth of fungal organisms on the film surface. It may also be used as a fungicide in cutting oils, textiles, paper coatings, inks, plastics, adhesives, and canvas and cordage. It is also recommended as a wood preservative.

#### USES:

The following are recommended use levels for TROYSAN<sup>®</sup> POLYPHASE<sup>™</sup> P-15H. All recommendations are in percentage by weight, and refer to the product TROYSAN<sup>®</sup> POLYPHASE<sup>™</sup> P-15H. Typical use levels are given for the various applications to indicate the approximate levels for a particular application. In order to determine the most cost effective use level for Polyphase<sup>™</sup> in a given end use, field trials are suggested.

#### PAINTS AND STAINS:

TROYSAN<sup>®</sup> POLYPHASE<sup>™</sup> P-15H will generally impart protection when used at levels of between 10 to 30 pounds per one hundred gallons based on the total formula weight. More may be required in hot, humid areas where mildew is a particularly severe problem, up to a maximum of twenty pounds per one hundred gallons.

For interior paints, because of the reduced fungal hazard, levels of 3 to 10 pounds per one hundred gallons will usually be adequate.

For wood protective stains which are used in both interior and exterior applications, levels of 20 to 30

a level of 20 to 25 pounds per hundred gallons is sufficient.

TROYSAN<sup>®</sup> POLYPHASE<sup>™</sup> P-15H should be added with good agitation at the end of the manufacturing cycle.

#### PLASTICS:

TROYSAN<sup>®</sup> POLYPHASE<sup>™</sup> P-15H may be used in polyvinyl chloride plastics to prevent surface mildew growth on items such as shower curtains, tarpaulins, umbrellas, etc. Levels of 1.3 - 6% by weight of the plastic are generally adequate. It is recommended that Polyphase<sup>™</sup> be dispersed in the plasticizer before it is incorporated into the resin. (Use of Polyphase<sup>™</sup> is not recommended if processing entails treatment above 350°F for prolonged periods of time, nor should it be used in a polyvinyl chloride plastic that will be in contact with food.)

#### CUTTING OILS:

TROYSAN<sup>®</sup> POLYPHASE<sup>™</sup> P-15H may be used in metal-working fluids to prevent fungal growth at concentrations of 1% - 1.3%. It should be added to the cutting fluid concentrate in amounts sufficient to yield the desired concentration in the diluted composition.

It is recommended that biocide levels be checked periodically as many cutting oils are unstable upon standing.

## WOOD:

**TROYSAN® POLYPHASE™P-15H** may be applied in solvent solutions or aqueous dispersions to new lumber, plywood, particle board, millwork, etc., to prevent the growth of mildew, sapstain, and wood destroying fungi.

Treating solutions may be prepared by diluting **Polyphase™** in organic solvents or by creating a water emulsion. Levels of 0.6 - 7% **Polyphase™** -15H are suggested depending on the type of protection required, severity of conditions for the end use, and the duration of time protection is required. All products should be field tested in order to insure that the most cost effective level of **Polyphase™** is being used.

## SAPSTAIN CONTROL

For the prevention of the growth of blue stain and mold fungi on freshly sawn lumber, a concentration of 0.7% active ingredient is suggested as a starting level. Formulations will usually be based on aqueous dispersions and emulsions. Lumber should be dipped for a duration of one to three minutes in order to achieve the maximum penetration into wood. For best results lumber should be treated within 24 hours after it is sawed.

## MILLWORK

**TROYSAN® POLYPHASE™P-15H** is also recommended for use on millwork, including door and window frames, exterior siding, composite board, plywood and other construction lumber when it is important to prevent the growth of mildew, blue stain, and wood destroying fungi.

Wood treated with **Polyphase™** does not change in appearance and may be painted when dry.

For applications of this type, **Polyphase™P-15H** may be applied from either organic solvent or water based formulations. These formulations may be applied by either dipping, spraying, or brushing. Suggested use level of **Polyphase™P-15H** is 20-30 pounds per hundred gallons based on formula weight, depending on the type of protection desired. For protection against wood destroying fungi, a level of 30 pounds per hundred gallons is sufficient. For protection against blue stain and

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mold fungi, a level of 20-25 pounds per hundred gallons is sufficient. **Polyphase™** is not recommended for wood surfaces which come into direct contact with food.

## TEXTILES:

**TROYSAN® POLYPHASE™P-15H** may be used as a mildewcide in both aqueous and solvent based coatings or dyes which are applied to the textile material. Typical end use of these materials are in such areas as carpets, canvas and cordage, drapes, shower curtains, etc. **Polyphase™** should not be used in fabrics for human wear. **Polyphase™** should be added at the end of the production cycle of the coating or dye.

**Polyphase™** will normally impart protection to the substrate when added at levels of 0.2-2.5% based on the total formula weight.

## PAPER COATINGS:

**TROYSAN® POLYPHASE™P-15H** may be used as a mildewcide in both aqueous and solvent based coatings which are applied to paper. Examples of such paper coatings are: corrugated cardboard and soap wrappers. **Polyphase™** should be added at the end of the manufacturing cycle of these coatings with good agitation.

**Polyphase™** will generally impart protection to the substrate when added at a level of 0.1 - .75% based on the total weight of the formulation.

## CANVAS AND CORDAGE:

**TROYSAN® POLYPHASE™P-15H** may be used as a mildewcide in both aqueous and solvent based formulations which coat canvas and cordage substrates. **Polyphase™** should be added at the end of the production cycle of the coating with good agitation.

**Polyphase™** will generally impart protection to the substrate when added at levels of 1 - 5% based on the formula weight.