

**PRECAUTIONARY
STATEMENTS**

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

**STATEMENT OF PRACTICAL
TREATMENT**

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waters.

**TROYSAN
POLYPHASE®
P-15H**

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

EPA REG. NO. 5383-73
EPA ESTAB. NO. 5383-NJ-1

INDUSTRIAL FUNGICIDE

ACTIVE INGREDIENTS:	
3-Iodo-2-Propynyl Butyl Carbamate.....	15.0%
INERT INGREDIENTS:	85.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

SOLD FOR INDUSTRIAL USE ONLY

See Side Panel for Additional Precautionary Statements



**TROY CHEMICAL CORPORATION
ONE AVENUE L, NEWARK, NEW JERSEY 07105**

DIRECTIONS FOR USE

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

APPLICATION:

Troysan Polyphase P-15H is sold for industrial use only. It should be used only in accordance with the instructions provided in the Technical Data Sheet.

STORAGE AND DISPOSAL

STORAGE:

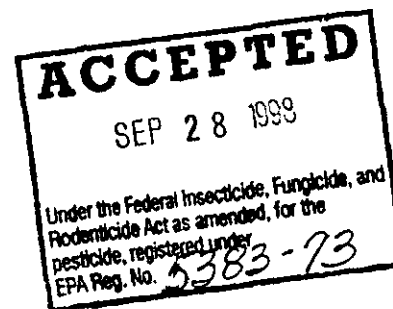
This material has a tendency to crystallize. Do not store at temperatures below 32 degrees F.

PESTICIDE DISPOSAL:

Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in sanitary landfill, or by other procedures approved by State and local authorities.



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Technical Data Sheet

TROY CORPORATION

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FLORHAM PARK, NEW JERSEY 07932
973-443-4200

TROYSAN POLYPHASE® P-15H

EPA Reg. No. 5383-73

PRODUCT:

TROYSAN POLYPHASE® P-15H is a broad spectrum, liquid, non-metallic fungicide which is effective against a wide variety of fungal organisms [and has been designed specifically for use in plastics]. [It may be used to protect both interior or exterior coatings 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.]

USES:

The following use levels are recommended for TROYSAN POLYPHASE® P-15H. All recommendations are in percentage by weight, and refer to the product, TROYSAN POLYPHASE® P-15H. Typical use levels are given and in order to determine the most cost effective use level for TROYSAN POLYPHASE® P-15H in a given end use, field trials are recommended.

BENEFITS

- Increased retention through improved processing stability.
- Provides treatment consistency for multiple applications and multi-component formulations.
- Long term protection over a broad spectrum.
- Liquid provides dosage control and compatibility with feed systems.]

PLASTICS:

TROYSAN POLYPHASE® P-15H may be used in polyvinyl chloride plastics to prevent surface mildew growth. TROYSAN POLYPHASE® P-15H is recommended for film and sheeting, extrusion, plastisols, molded goods, organosols, fabric coatings and similar systems. Levels of 0.5 - 2.0 % by weight of the plastic are generally adequate. Lower rates should be used for interior applications, while the higher rates are suggested for exterior applications. It is recommended that TROYSAN POLYPHASE® P-15H be dispersed into the plasticizer before it is incorporated into the resin. Use of TROYSAN POLYPHASE® P-15H 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.

[TROYSAN POLYPHASE® P-15H is effective in preventing mold and mildew growth on various plastics substrates. TROYSAN POLYPHASE® P-15H is particularly effective in flexible vinyl applications in which plasticizers readily contribute to surface microbiological attack. TROYSAN POLYPHASE® P-15H is recommended for end-use applications such as film, sheeting, gasketing, profiles, foams, coatings, laminates, and molded parts. TROYSAN POLYPHASE® P-15H may be incorporated in plastisols and organosols as well as compounded for processing through extrusion, calendaring, and injection molding. TROYSAN POLYPHASE® P-15H is suitable for both interior and exterior applications.]

PAINTS AND STAINS:

TROYSAN POLYPHASE® P-15H will generally impart protection when used at levels of between 10 to 30 pounds per one hundred gallons based on the optimal 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 pounds per one hundred gallons based on formula weight are recommended, depending on the type of protection desired. If protection against wood destroying fungi are required, then a level of 30 pounds per hundred gallons is sufficient. If protection against blue stain and mold are required, then a level of 20 to 25 pounds per hundred gallons is sufficient.

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

CUTTING OILS:

TROYSAN® POLYPHASE™ 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 TROYSAN POLYPHASE® P-15H in organic solvents or by creating a water emulsion. Levels of 0.6 - 7% TROYSAN POLYPHASE® P-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 TROYSAN POLYPHASE® P-15H 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 TROYSAN POLYPHASE® P-15H does not change in appearance and may be painted when dry.

For applications of this type, TROYSAN 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 TROYSAN® 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, level of 30 pounds per hundred gallons is sufficient. For protection against blue stain and mold fungi, a level of 20-2.5 pounds per hundred gallons is sufficient. TROYSAN POLYPHASE® P-15H 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. TROYSAN POLYPHASE® P-15H should not be used in fabrics for human wear. TROYSAN POLYPHASE® P-15H should be added at the end of the production cycle of the coating or dye.

TROYSAN POLYPHASE® P-15H 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 - 0.75% 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.

TROYSAN POLYPHASE® P-15H will generally impart protection to the substrate when added at levels of 1 - 5% based on the formula weight.

INKS:

TROYSAN® POLYPHASE™ P-15H may be used in aqueous based ink solutions for protection of these solutions against the attack of fungal organisms. It is recommended that TROYSAN POLYPHASE® P-15H be added at the end of the production cycle.

TROYSAN POLYPHASE® P-15H will generally impart protection when used at levels of 0.1 - 6% based on the formula weight.

ADHESIVES:

TROYSAN® POLYPHASE™ P-15H 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 - 1.4% based on the formula weight. TROYSAN POLYPHASE® P-15H should be added toward the end of the production cycle with good agitation.

STORAGE AND HANDLING:

TROYSAN POLYPHASE® P-15H should not be stored at temperatures below 32°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 are found on the MSDS.

NOTE:

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

- The use levels of TROYSAN POLYPHASE® P-15H in polyvinyl chloride plastics are determined by the individual composition of the final system.
- White and light colored coatings should be checked for color stability on exposure and after heat aging.
- All suggested use applications should be evaluated for final product efficacy, color uniformity, and for temperature and exposure/storage stability.]

TYPICAL PROPERTIES:

Active Ingredient.....	15% min. 3-Iodo-2-propynyl butyl carbamate
Appearance.....	Liquid
Color.....	Clear Water White
Viscosity (Gardner Bubble) 25°C.....	A-5
Specific Gravity 25°C.....	1.06
Lbs./Gal.....	8.80
Odor.....	Characteristic

