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INKS:

TROYSAN® POLYPHASE™P-20S 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 .1 - 6% based on the formula weight.

ADHESIVES:

TROYSAN® POLYPHASE™P-20S 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 .1 - .4% based on the formula weight. **Polyphase™** should be added toward the end of the production cycle with good agitation.

STORAGE AND HANDLING:

TROYSAN® POLYPHASE™P-20S 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	Solid
Color	Amber
Viscosity (Gardner Bubble) 25°C ...	Not applicable
Specific Gravity 25°C	1.129
Lbs./Gal.	9.42
Odor	Mild, acrylic

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.
5383-75

DATE OF ISSUANCE
FEB 7 1989

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT
Troysan Polyphase P-10L

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Troysan Chemical Corporation

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The product is conditionally registered in accordance with section 3(c)(7)(A) provided that you:

1. Supply/submit all data required for registration/reregistration in accordance with section 3(d)(5) and the instructions for all similar products to submit such data.
2. Supply/submit changes listed below before releasing the product for sale:
 - a. Change the "EPA registration no." to 5383-75.
 - b. In the first sentence under "Paints and stains" in the bulletin, the lower rate of the rate range was written. Make the appropriate correction.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Lanice J. Selman

DATE

FEB 7 1989

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

for Lois A. Rossi ^{WJS}
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosures

TROYSAN POLYPHASE^{P-10L}

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

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

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.

Aide 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.

PHYSICAL AND CHEMICAL HAZARDS

Do not Use, Pour, Spill, or Store Near Heat or Open Flame.

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.....	10%
Inert Ingredients.....	90%
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

ONE AVENUE L NEWARK, NEW JERSEY 07105

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[®] POLYPHASE™ P-10L. All recommendations are in percentage by weight, and refer to the product TROYSAN[®] POLYPHASE™ P-10L. 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™ in a given end use, field trials are suggested.

PAINTS AND STAINS:

TROYSAN[®] POLYPHASE™ P-10L will generally impart protection when used at levels of between to 48 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 48 pounds per one hundred gallons.

For interior paints, because of the reduced fungal hazard, levels of 4 to 16 pounds per one hundred gallons will usually be adequate.

For wood protective stains which are used in both interior and exterior applications, levels of 32 to 48

sufficient.

TROYSAN[®] POLYPHASE™ P-10L should be added with good agitation at the end of the manufacturing cycle.

PLASTICS:

TROYSAN[®] POLYPHASE™ P-10L may be used in polyvinyl chloride plastics to prevent surface mildew growth on items such as shower curtains, tarpaulins, umbrellas, etc. Levels of 2.0-10% by weight of the plastic are generally adequate. It is recommended that Polyphase™ be dispersed in the plasticizer before it is incorporated into the resin. (Use of Polyphase™ 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[®] POLYPHASE™ P-10L may be used in metal-working fluids to prevent fungal growth at concentrations of .2 - 2%. 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-10L 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 1-12% **Polyphase[™] P-10L** 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 1-2% 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-10L 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-10L** 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-10L** is 32-48 pounds per hundred gallons based on formula weight, depending on the type of protection desired. For protection against wood destroying fungi, a level of 48 pounds per hundred gallons is sufficient. For protection against blue stain and

mold fungi, a level of 32-40 pounds per hundred gallons is sufficient. **Polyphase[™]** is not recommended for wood surfaces which come into direct contact with food.

TEXTILES:

TROYSAN[®] POLYPHASE[™] P-10L 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 0.4-4% based on the total formula weight.

PAPER COATINGS:

TROYSAN[®] POLYPHASE[™] P-10L 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 0.2-1.2% based on the total weight of the formulation.

CANVAS AND CORDAGE:

TROYSAN[®] POLYPHASE[™] P-10L 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 2.0-8% based on the formula weight.

INKS:

TROYSAN® POLYPHASE™ P-10L 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 0.2-12% based on the formula weight.

ADHESIVES:

TROYSAN® POLYPHASE™ P-10L 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 0.2 - 0.8% based on the formula weight. **Polyphase™** should be added toward the end of the production cycle with good agitation.

STORAGE AND HANDLING:

TROYSAN® POLYPHASE™ P-10L 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	13% 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	0.869
Lbs./Gal.	7.25
Odor	Characteristic
Solubility	Soluble in aromatics