pm 22

5383-50

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

DANGER

Corrosive, causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing dust and contact with skin, eyes and clothing. Wear goggles, face shield or safety glasses, protective clothing and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferable mouth to mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get Medical attention.

IF SWALLOWED: Call a physician or poison control center.Drink promptly, a large quantity of milk, egg white or gelatin mixture, or if these are not available, large quantities of water. Avoid alcohol. Do not give anything by mouth to an unconscious person.

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 washwaters.

TROYSAN
POLYPHASE P-100

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. 5383-50
E.P.A. EST. NO. 5383-NJ-1
INDUSTRIAL FUNGICIDE

ACTIVE INGREDIENT:
3-Iodo-2-Propynyl Butyl Carbamate.....97%
INERT INGREDIENTS.....3%

Total..... 100%

KEEP OUT OF REACH OF CHILDREN

DANGER

SOLD FOR INDUSTRIAL USE ONLY

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

TROY CHEMICAL CORPORATION
ONE AVENUE L NEWARK, NEW JERSEY 07105

Troysan and Polyphase are registered trademarks of the Troy Chemical Corp.

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-100 is sold for industrial use only. It should be used only in the areas listed in accordance with the instructions provided in the Technical Bulletin.

STORAGE AND DISPOSAL

STORAGE: This material has a tendency to pack into hard lumps due to its low melting point. Storage temperatures below 90° F (32° C) and above 32° F (0° C) are recommended.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, spray mixture, or rinsate, is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance. Do not contaminate water, food, or feed by storage or disposal.

CONTAINER DISPOSAL: Completely empty liner bag, shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

7/21/92

PRODUCT:

TROYSAN® POLYPHASE® P100 is a broad spectrum, solid, non-metallic fungicide which is effective against a wide variety of fungal organisms. It may be used to protect both interior or exterior coatings from the growth of fungal organisms on the film surface, as a fungicide in cutting oils, textiles, paper coatings, inks, plastics, adhesives, and canvas and cordage. It is also used as a wood preservative in above ground applications.

USES:

The following are recommended use levels for **TROYSAN® POLYPHASE® P100.** Typical use levels are given for the various applications to indicate the approximate levels for a particular application. Field trials are suggested in order to determine the most cost effective use for **Polyphase®** in a given end use.

PAINTS AND STAINS:

TROYSAN® POLYPHASE® P100 may be used as a fungicide in both aqueous and solvent based paints and stains. It should be added towards the end of the production cycle with good agitation to prevent possible mechanical losses.

TROYSAN® POLYPHASE® P100 will generally impart protection when used at levels of between 0.3-0.5% active ingredient by weight of the total formulation. More may be required in hot, humid areas where mildew is a particularly severe problem, up to a maximum of 1% active ingredient by weight of the total formulation.

For interior paints, because of the reduced fungal hazard, levels of 0.1-0.2% active ingredient by weight of the total formulation are sufficient.

For wood protective stains which are used in both interior and exterior applications such as exterior siding, decks, lawn furniture, etc., levels of 0.3-0.5% are recommended, depending on the type of protection desired. If protection against wood destroying fungi is required, then a level of 0.5% active ingredient based on total formula weight is sufficient. If protection against blue stain and mold fungi is required, a level of 0.3-0.4% active ingredient based on total formula weight is sufficient.

TROYSAN® POLYPHASE® P100 should be dissolved in the polar solvents, coalescing agents, and or vehicle portions of the formulation. **Polyphase®** has limited solubility in aliphatic solvents, mineral oil, or hydrocarbon resins.

PLASTICS:

TROYSAN® POLYPHASE® P100 may be used in polyvinyl chloride plastics, such as shower curtains, tarpaulins, sun umbrellas, etc., to prevent the growth of mildew. Levels of 0.05-0.6% active ingredient by weight of the plastic are generally adequate. It is recommended that **Polyphase®** be dissolved 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, or should it be used in a polyvinyl chloride plastic that will be in contact with food.)

CUTTING OILS:

TROYSAN® POLYPHASE® P100 may be used in metal-working fluids to prevent fungal growth at concentrations of 0.03-0.3% active ingredient. It should be added to the cutting fluid concentrate in amounts sufficient to yield the desired concentration of active ingredient in the diluted composition.

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

WOOD:

TROYSAN® POLYPHASE® P100 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 on these substrates. **Polyphase® P100** is *recommended for use on wood in above ground use only.*

Treating solutions may be prepared by dissolving **Polyphase® P100** in organic solvents or by creating a water emulsion. Levels of 0.3-0.5% active ingredient are suggested depending on the types of protection required, conditions for end use, and the duration of time that 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 growth of blue stain and mold fungi on freshly sawn lumber, a concentration of 0.3% active 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® P100 is 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 on these materials.

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

For applications of this type, **Polyphase® P100** *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®** is 0.3-0.5% depending upon the type of protection desired. For protection against wood destroying fungi, a level of 0.5% active ingredient based on the total formula weight is sufficient. For protection against blue stain and mold fungi, a level of **0.3-0.4% active ingredient based on the total formula** weight is sufficient. **Polyphase® P100** is not recommended for wood surfaces which come into direct contact with food. Surfaces which may be in continuous contact with skin should be coated with a varnish, or lacquer after treatment with **TROYSAN® POLYPHASE® P100.**

TEXTILES:

TROYSAN® POLYPHASE® P100 may be used as a mildewcide in both aqueous and solvent based coatings or dyes which are applied to textile materials. Typical end uses of these materials are in carpets, canvas and cordage, drapes, and shower curtains. Not to be used in fabrics for human wear. **Polyphase®** should be dissolved in the polar and vehicle portion of these coatings.

Polyphase® P100 will normally impart protection to the substrate when added at levels of 0.05-0.5% active ingredient based on the total formula weight.

PAPER COATINGS:

TROYSAN® POLYPHASE® P100 may be used as a mildewcide in both aqueous and solvent based formulations to coat paper. Examples of such paper coatings are: corrugated cardboard and soap wrappers. **Polyphase®** should be added to the polar and vehicle components of the coatings.

Polyphase® will generally impart protection to the substrate when added at levels of .05-.2% active ingredient based on the total formula weight.

INKS:

TROYSAN® POLYPHASE® P100 may be used in aqueous based ink solutions for protection against the attack of fungal organism.

Polyphase® will generally impart protection when used at levels of 0.05-.5% active ingredient based on the total formula weight.

ADHESIVES:

TROYSAN® POLYPHASE® P100 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 in the dry film.

Recommended levels are 0.025–0.5% active ingredient based on the total formula weight. Polyphase® should be added to the polar and venicle components of the formulation.

STORAGE AND HANDLING:

This material has a tendency to pack into hard lumps due to its low melting point. Storage temperatures below 90°F (32°C) and above 32°F (0°C) are recommended.

Please store drums in an upright position. Do not reuse empty drums. Please dispose of empty drums in accordance with local standards. Full safety and handling information are to be found in the MSDS sheet for this material.

NOTE:

The information and data given herein are based upon tests and reports believed 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 customer's own investigations and appraisal, and no recommendation should be construed as an invitation to use a material in infringement of patents.

TYPICAL PROPERTIES:

Active Ingredient	97% Minimum; 3-iodo-2-propynyl butyl carbamate
Appearance	Off-white crystalline solid
Melting Point	60-67°C
Density	1.767
Solubility	Soluble in most solvents with the exception of water and aliphatics

NOTE: The above typical properties are not to be considered as purchase specifications.

PACKAGING: Actual net contents are stenciled on the drum

100 lb. fiberboard drums
50 lb. fiberboard drums