PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

DANGER

Corrosive, Causes irreversible eye damage. May be latal if absorbed through skin. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Harmini II swallowed or inhaled. Avoid braathing vapor or spray mist. Wear goggles, lace shield or safety glasses, protective clothing and rubber gloves. Wash thoroughly with soap and water stier handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

<u>IF IN EYES</u>: Hold eyelids open and flush with a genile, sleady stream of water for 15 minutes. Get madeal aligniton.

IF ON SKIN: Wesh with plenty of scap and water, Gel medical attention,

IF SWALLOWED: Cell a physician or poison control center. Drink promptly a large quantity of milk, egg while 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.

IF INHALED: Temore victim to fresh sir. If not breathing, give enliticiat respiration, preferable mouth to mouth. 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 washingtons.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heet or open items.

, }

11

TROYSAND POLYPHASED AF1

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

E.P.A. REG. NO. 5363-63 E.P.A. ESF. NO. 6363-NJ-1 INDUSTINAL FUNDICIDE

ACTIVE INGREDIENT:

lodo 2-l	Topynyi Bulyi Carba	mele	ЮХ
VENT IN	GREDIENTS.		0%
		101AI ·	0%

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

OTroyson 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® Polyplase® AFT issoid 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

SIONAGE: This material has a tendency to crystallize at tow temperatures. Storage temperatures below 90°F (32°C) and above 32°F (0°C) are recommended.

PESSICIUE DISCOSAL. Posicide wastes are acutely hazardons. Improper disposal of excess posticides, spray mixture, or rinsale, is a violation of inderal taw. If these wastes cannot be disposed of by use according to label instructions, contact your State posticide or environmental control agency, or the ingardous waste representative at the nearest EPA regional office for guidance. Do not contaminate water, lood, or lead by storage or depusal.

CONTAINER DISPOSAL: Tripte tinse s:um (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanita:y landill, or officer approved State and local procedures.



 \sim

TROYSAN[®] POLYPHASE[®] AF1 is a broad spectrum, liquid, 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. 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, for use in above ground applications.

USES:

:

1

The following are recommended use levels for TROYSAN[®] POLYPHASE[®] AF1. All recommendations are in percentage by weight, and refer to the product TROYSAN[®] POLYPHASE[®] AF1. 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[®] AF1 in a given end use, field trials are suggested.

PAINTS AND STAINS:

TROYSAN® POLYPHASE® AF1 will generally impart protection when used at levels of between 4 to 12 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 one to four pounds per one hundred gallons will usually be adequate.

For wood protective stains which are used in

recommended, depending on the type of protection desired. If protection against wood destroying fungi are required, then a level of 12 pounds per hundred gallons is sufficient. If protection against blue stain and mold are required, then a level of 8 to 10 pounds per hundred gallons is sufficient.

TROYSAN[®] POLYPHASE[®] AF1 should be added with good agitation at the end of the manufacturing cycle.

PLASTICS:

TRCYSAN® POLYPHASE® AF1 may be used in polyvinyl chloride plastics to prevent surface mildew growth on items such as shower curtains, tarpaulins, umbrellas, etc. Levels of 0.5-2.5% by weight of the plastic are generally adequate. It is recommended that Polyphase® AF1 be dispersed in the plasticizer before it is incorporated into the misin. (Use of Polyphase® AF1 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® AF1 may be used in metalworking fluids to prevent fungal growth at concentrations of 0.05-0.5%. It should be acced 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® AF1 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. Polyphase is recommended for use on wood in above ground use only. Treating solutions may be prepared by diluting Polyphase® AF1 in organic solvents or by creating a water emulsion. Levels of 0.5-2.0% Polyphase® AF1 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

t effective level of Polyphase* AF1 is being used.

SAPSTAIN CONTROL

For the prevention of the growth of blue stain and mold fungi on freshly sawn lumber, a concentration of 0.5 % 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® AF1 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[®] AF1 does not change in appearance and may be painted when dry.

For applications of this type, Polyphase⁹ AF1 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 Polyphase⁹ AF1 is 8-12 pounds per hundred gallons based on formula weight, depending on the type of protection desired. For protection against wood destroying fungi, a level of 12 pounds per hundred gallons is sufficient. For protection against blue stain and mold fungi, a level of 8-10 pounds per hundred gallons is sufficient. Polyphase[®] AF1 is not recommended for wood surfaces which come into direct contact with food.

TEXTILES:

TROYSAN® POLYPHASE® AF1 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® AF1 should not be used in fabrics for human wear. Polyphase® AF1 should be added at the end of the production cycle of the coating or dye.

Polyphase^a AF1 will normally impart protection to the substrate when added at levels of 0.1-1.0% based on the total formula weight.

PAPER COATINGS:

TROYSAN- POLYPHASE³ AF1 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. Polyphase³ AF1 should be added at the end of the manufacturing cycle of these coatings with good agitation.

Polyphase^a AF1 will generally impart protection to the substrate when added at a level of 0.05-0.3% based on the total weight of the formulation.

CANVAS AND CORDAGE:

TROYSAN® POLYPHASE® AF1 may be used as a mildeweide in both aqueous and solvent based formulations which coat canvas and cordage substrates. Polyphase® AF1 should be added at the end of the production cycle of the coating with good agitation.

Polyphase^a AF1 will generally impart protection to the substrate when added at levels of 0.5-2.0% based on the formula weight.



INKS:

TROYSAN[®] POLYPHASE[®] AF1 may be used in aqueous based ink solutions for protection of these solutions against the attack of fungal organisms. It is recommended that Polyphase[®] AF1 be added at the end of the production cycle.

Polyphase^b AF1 will generally impart protection when used at levels of 0.05-3.0% based on the formula weight.

ADHESIVES:

IROYSAN[®] POLYPHASE[®] AF1 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 0.05-0.2% based on the formula weight. Polyphase³ AF1 should be added toward the end of the production cycle with good agitation.

PACKAGING:

5 gallon pails 15 gallon kits 55 gallon drums totes STORAGE AND HANDLING:

TROYSAN[®] POLYPHASE[®] AF1 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 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.

BEST AVAILABLE CO

50 lbs. net 125 lbs. net 500 lbs. net 2,200 - 3,000 lbs. net

Actual net contents is stencilled on container.

TYPICAL PROPERTIES:

Active Ingredient:	40% min. 3-iodo-2-propynyl butyl carbamate
Appearance:	Amber mobile liquid
Color (Gardner):	9 maximum
Specific Gravity 25°C:	1.1-1.2
Lbs./Gal.:	9.4-9.7
Odor:	Characteristic
Solubility:	Soluble in aromatics and alcohols. Dispersible in aqueous and solvent based paints.

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

TROY PRODUCTS

TROYSAN* FUNGICIDES and BACTERICIDES

A complete line of nonmercurial preservatives, for any amplication. Troysan® Polyphase,® a patented, versatile

Metallic fungicide.

TROYTHIX" RHEOLOGY MODIFIERS

A full range of rheology agents for solvent systems. Products include Troythix¹⁰ 42BA, a high-efficiency viscosity builder; and Troythix¹⁰ XYZ, the industry's standard thixotrope.

TROYSOL[™] DISPERSANTS and SURFACTANTS

A broad range of surface-active compounds for aqueous and non-aqueous systems. TroysolTM AFP, the original antifloat, antisilking additive, TroysolTM 98C, a unique amphoteric surfactant, and TroysolTM Q148, a specially-formulated flow control agent for aqueous systems are three of the more than fifteen specialty additives that make up the TroysolTM line.

)

TROYKYD* DRIER STABILIZERS

TROYKYD[®] PermaDry is an effective lead-free feeder drier that maintains drying efficiency in systems containing high surface-area pigments, such as carbon black, where conventional driers are preferentially absorbed on the pigment surface, causing loss of dry.

TROYKYD* ANTISKINNING AGENTS

Troykyd[®] AntiSkin B is the workhorse of the industry. Troykyd[®] AntiSkinning Agents can meet any need that presents itself.

DRIERS AND CATALYSTS

Metallic soap driers offered in a wide variety of metal contents.

TroymaxTM — A high quality synthetic drier Troykyd[®] — The conventional naphthenates Troykyd[®] WD — Water-dispersible driers



TROYKYD® DEFOAMERS

Nine specially-formulated defoarmers to meet almost any application need. Troykyd® D126, a powdered defoarmer for high pH systems, 'Troykyd® D999, a widely used general purpose defoarmer, and Troykyd® D44, a particle free, high potency defoarmer are a few offerings in the Troykyd® Defoarmer series.

Troysan* Polyphase: , TroythixTM, TroysolTM, Troykyd* , and TroymaxTM, are Trademarks of Troy Chemical Corporation.