5383-91

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Technical Data [Sheet] [Bulletin]

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Under the Federal Insecticide, Fungicide, and Bodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 5263-91

Troysan[®] Polyphase[®] 604 is a broad spectrum liquid, non-metallic fungicide effective against a wide variety of fungal organisms. It may be used as a fungicide in cutting oils, textiles, paper coatings. inks, adhesives, canvas and cordage, textile processing chemicals (lubricants, sizing and coating compounds), liquid detergents, soft soaps, household cleaning products, room deodorizers and air fresheners. It is also recommended as a wood preservative. Troysan[®] Polyphase[®] 604 may be applied in aqueous dispersions to new lumber, plywood, particle board, millwork, and other construction lumber. to prevent the growth of mildew. sapstain, and wood destroying fungi. For use on above-ground application only.

USES:

The following are recommended use levels for **Troysan[®] Polyphase[®] 604.** All recommendations are in percentage by weight and refer to the product **Troysan[®] Polyphase[®] 604.** 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 **Troysan[®] Polyphase[®] 604** in a given end use, field trials are suggested.

PAINTS AND STAINS:

Troysan[®] Polyphase[®] 604 will generally impart protection when used at levels of 5-12% 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 12.5% by weight. For interior paints, because of the reduced fungal hazard, levels of 2.0-2.5% will usually be adequate. For wood protective stains which are in both interior and exterior applications, levels of 5-15% based on formula weight are recommended, depending on the type of protection desired. If protection against wood destroying fungi is required, then up to a level of 30% is sufficient. If protection against blue stain and mold are required, then a level of 5-15% is sufficient. Troysan⁸ Polyphase[®] 604 should be added with good agitation at the end of the manufacturing cycle.

METAL WORKING FLUIDS:

POLYPHASE ® 604 may be used in metalworking fluids to prevent fungal growth at concentrations of 0.5-8.75%. It should be added to the cutting fluid concentrate in an amount sufficient to yield the

Troysan[®] Polyphase[®] 604 Broad Spectrum Fungicide EPA Reg. No. 5383-91

desired concentration in the diluted composition. It is recommended that biocide levels be checked periodically as many cutting oils are unstable upon standing.

WOOD:

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For use on wood in above-ground applications only. Treating solutions may be prepared by diluting **Troysan[®] Polyphase[®] 604** in water emulsion. Levels of 5-30% (0.48-1.80% a.i.) **Troysan[®] Polyphase[®] 604** are suggested depending on the type of protection required, severity of end use conditions and the duration of protection required. All products should be field tested in order to insure that the most costeffective level of **Troysan[®] Polyphase[®] 604** is being used.

SAPSTAIN CONTROL:

For the prevention of blue stain and mold fungi on freshly sawn lumber, a concentration of 0.3-0.75 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[®] 604 is also recommended for use on millwork, including doors, window frames, exterior siding, composite board, plywood and other construction lumber when protection against the growth of mildew, blue stain and wood destroying fungi is required. Wood treated with Troysan[®] **Polyphase**[®] 604 does not change in appearance and may be painted when dry. For applications of this type, Troysan[®] Polyphase[®] 604 should be formulated in water based systems. These formulations may be applied by either immersion, spray or brush methods. Suggested use range of Troysan[®] Pulyphase[®] 604 is 5-30% based on formula weight, depending on the type of protection required. For protection against wood destroying fungi, a level of up to 30% may be required. For protection against blue stain and mold fungi, a level of 5-15% is sufficient. Troysan Polyphase[®] 604 is not recommended for wccd surfaces which come into direct contact with food.

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TEXTILES:

Troysan[®] Polyphase[®] 604 may be used as a mildewcide in aqueous based coatings or dyes and processing chemicals (lubricants, sizing, etc.) which are applied to the textile material. Typical end use of these materials is in such areas as carpets, canvas and cordage, drapes, shower curtains, etc. Troysan[®] Polyphase[®] 604 should be added at the end of the production cycle of the coating or dye. Troysan[®] Polyphase[®] 604 will normally impart protection to the substrate when added at levels of 1.0-20% based on the total formula weight.

PAPER COATINGS:

Troysan[®] Polyphase[®] 604 may be used as a mildewcide in aqueous based coatings which are applied to paper. Examples of such paper coatings are corrugated cardboard and soap wrappers. Troysan[®] Polyphase[®] 604 should be added at the end of the manufacturing cycle of these coatings with good agitation. Troysan[®] Polyphase[®] 604 will generally impart protection to the substrate when added at a level of 1.75-10% based on the total weight of the formulation.

CANVAS AND CORDAGE:

Troysan[®] Polyphase[®] 604 may be used as a mildewcide in both aqueous and solvent based formulations which coat canvas and cordage substances. Troysan[®] Polyphase[®] 604 should be added toward the end of the production cycle of the coating with good agitation.

Troysan[®] Polyphase[®] 604 will generally impart protection to the substrate when added at levels of 5-20% based on the formula weight.

INKS:

Troysan[®] Polyphase[®] 604 may be used in aqueous based ink solutions for protection against the attack of fungal organisms. It is recommended that Troysan[®] Polyphase[®] 604 be added at the end of the production cycle. Troysan[®] Polyphase[®] 604 will generally impart protection when used at levels of 1.75-10% based on the formula weight.

ADHESIVES:

Troysan[®] Polyphase[®] 604 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 0.45-10% based on the formula weight. Troysan[®] Polyphase[®] 604 should be added toward the end of the production cycle with good agitation. For non-food, non-medical use only.

HOUSEHOLD CLEANING PRODUCTS:

Troysan[®] Polyphase[®] 604 may be used in aqueous-based systems used in household product formulations to prevent the growth of fungal organisms. Troysan[®] Polyphase[®] 604 will generally impart protection when used at levels of 0.03% to 1.0% based on the total weight of the formulation to be protected. It is recommended that Troysan[®] Polyphase[®] 604 be added at the end of the production cycle. It is for non-food use only.

DETERGENTS AND SOFT SOAPS:

Troysan[®] Polyphase[®] 604 may be used in aqueous-based liquid detergent and soft soap formulations to prevent the growth of fungal organisms. Troysan[®] Polyphase[®] 604 will generally impart protection when used at levels of 0.03% to 1.0% based on the total weight of the formulation to be protected. . It is recommended that Troysan[®] Polyphase[®] 604 be added at the end of the production cycle. It is for non-food, non-medical use only.

ROOM DEODORIZERS AND AIR FRESHENERS:

Troysan[®] Polyphase[®] 604 may be used in aqueous-based room deodorizer and air freshener formulations to prevent the growth of fungal organisms. Troysan[®] Polyphase[®] 604 will generally impart protection when used at levels of 0.03% to 1.0% based on the formula weight. It is recommended that Troysan[®] Polyphase[®] 604 be added at the end of the production cycle.

HANDLING & STORAGE:

Troysan[®] Polyphase[®] 604 has a tendency to [crystallize] [gel] at low temperatures. Storage temperatures below 90°F (32°C) and above 32°F (0°C) are recommended. Store drums in an upright position. Do not reuse empty drums. Dispose of in accordance with label directions. Complete safety and handling information will be found in the Material Safety Handling Data Sheet.

NOTE:

The information and data given 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 infiningement of patents.

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TYPICAL PROPERTIES:	****
Appearance:	Amber mobile liquid
Active ingredient	6.0% min. 3-iodo-2-propynyl-butyi çardamate
Udor	characteristic
Soluble	In aqueous based systems
Wt./U.S. Gallon (lbs.):	10.03