

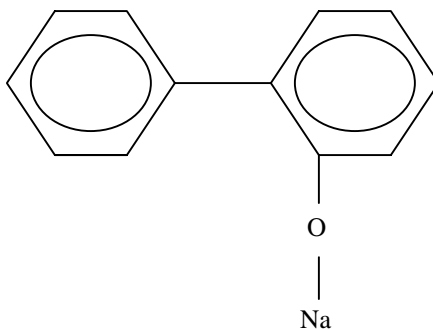
Effective: 04/24/01
Supersedes: -----

P - 102 PRESERVATIVE

DESCRIPTION

P-102 PRESERVATIVE IS EFFECTIVE AGAINST A WIDE VARIETY OF MOLD AND BACTERIA FOR THE PRESERVATION OF GLUES AND ADHESIVES, MATERIAL IN THE BUILDING INDUSTRY (e.g. CONCRETE ADDITIVES, JOINT CEMENTS), METAL WORKING FLUIDS, STAINS, PAINTS, DYES, PIGMENTS, POLYMER DISPERSIONS AND EMULSIONS, FILLER SUSPENSIONS, MATERIALS IN THE TEXTILE INDUSTRY, MATERIALS IN THE PAPER INDUSTRY, MATERIALS IN THE OIL INDUSTRY (e.g. DRILLING MUDS), LEATHER, TEMPORARY SAPSTAIN CONTROL FOR LUMBER, AND OTHER MATERIALS SUCH AS POLISHES, WAXES PROTEIN SOLUTIONS, AND CERAMIC GLAZES

Structure:



CHEMICAL AND PHYSICAL DATA

Active Ingredient:	Sodium o-phenylphenate
Common Name:	Sodium orthophenyphenol
Chemical Name:	[1,1'-Biphenyl]-2-ol, sodium salt
Minimum Purity:	min. 99.0%
Density (25'C):	1.07 gm/cm ³
Bulk Density:	8.84 lb/gal
Flash Point:	Not applicable

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. The following guidance is given as an approximation for each use pattern, but field-testing is

recommended to achieve optimum effectiveness.

GLUES AND ADHESIVES

The weight of P-102 Preservative to be used is based on the total weight of the adhesive formulation. P-102 Preservative should be incorporated into the adhesive formulation just following the addition of water. To achieve fast and homogeneous distribution throughout the entire product, stirring is recommended. In the production of powdered glues, P-102 Preservative should be added toward the end of the thickening in order to minimize any losses of active substance. Recommended Dosages:

Bone Glues	0.3-0.6%
Skin Glues	0.3-0.6%
Fish Glues.....	0.3-0.6%
Leather Glues	0.3-0.6%
Casein-Containing Adhesives	0.5-0.9%
Other Animal Glues	0.3-0.9%
Starch-Based Glues (Liquid).....	0.3-0.6%
Starch-Based Glues (Solid).....	0.6-3.0%
Dextrin-Based Adhesives	0.3-0.6%
Other Plant-based Adhesives.....	0.3-0.6%
Cellulose Adhesives	0.3-0.6%
Polyvinyl Acetate Adhesives.....	0.2-0.6%
Acrylic Adhesives	0.2-0.6%
Styrene Butadiene Adhesives.....	0.2-0.6%
Gumarabic and Similar Adhesives	0.3-0.6%
Other Adhesive Emulsions.....	0.2-0.6%

MATERIALS IN THE BUILDING INDUSTRY

The weight of P-102 Preservative to be used is based on the total weight of the product to be preserved. The preservative is best incorporated into the materials just following the initial addition of water or other liquid components sufficient to dissolve the preservative. If incorporation happens at later production stages, stirring is recommendable to ensure homogeneous distribution of the preservative throughout the product. Recommended Dosages:

Joint cements.....	0.20- 0.60%
Concrete additives	0.20-1.00%
Other materials and auxiliaries.....	0.20-1.00%

METAL WORKING FLUIDS

P-102 Preservative can be incorporated into the original concentrate of metalworking fluids (the compatibility with the fluid to be preserved should be evaluated before). P-102 Preservative is equally suitable for tank side addition, which is facilitated by pre-dissolution of the preservative, for example in water. To achieve fast distribution within the ready-to-use dilution of the metalworking fluid, the preservative should be dosed at a point in the system where good circulation is given. Recommended Dosages:

Metalworking fluids-Mineral Oil Based	
Metalworking fluids (concentrates).....	2.5 - 10.0%
Metalworking fluids (ready for use).....	0.20 -0.80%
Fuel oils	0.03 -0.23%
Hydraulic oils	0.08 -0.4%
Metalworking fluids-Non-Mineral Oil Based	
Metalworking fluids (concentrates).....	2.5 -10.00%
Metalworking fluids (ready for use).....	0.20 -0.80%

STAINS AND PAINTS

P-102 Preservative is generally incorporated directly into pigments and fillers or added directly into binder systems. It can also be dissolved in a suitable solvent or added directly to the pre-heated binder system. For best results, the preservative should be homogeneously incorporated into stain or paint. Discoloration may occur, and should be evaluated. Recommended Dosages:

Latex-Based Systems	0.25 -0.4%
Casein-Systems	0.3 - 0.6%
Oil-Containing Systems	0.4 - 0.8%

Alkyd Resin-Based Systems	0.4 - 0.8%
Synthetic Resin Dispersions	0.15 -0.4%

DYES, PIGMENTS AND FILLER SUSPENSIONS

P-102 Preservative should be evenly mixed with dispersing agents for processes where the temperature does not exceed 100°C. For all other processes, P-102 Preservative is metered directly into the material to be preserved during the cooling step [after the temperature falls below 50°C] and homogeneously distributed by stirring. The weight of P-102 Preservative to be used is based on the total weight of the product to be preserved. Recommended Dosages:

Clay Slurries	0.03 -0.15%
Kaolin Slurries.....	0.03- 0.15%
Calcium Carbonate Slurries.....	0.03 -0.15%
Iron Oxide Pigment Slurries.....	0.03 -0.15%
Carbon Black Pigment Slurries	0.03 -0.15%
Titanium dioxide Pigment Slurries.....	0.08 - 0.3 %
Organic Dyes and Pigment Slurries	0.03 - 0.15%
Starch Slurries	0.03- 0.15%
Other Filler Suspensions	0.03 -0.15%

POLYMER DISPERSIONS AND EMULSIONS

P-102 Preservative is added immediately after the after the preparation of the polymer dispersion or emulsion during the cooling process. Losses of active ingredient caused by elevated temperatures should be avoided. For homogeneous distribution, P-102 Preservative should be dissolved in water or other suitable solvents and then added to emulsion concentrates or polymer dispersions. Recommended Dosages:

Acrylic Systems.....	0.15 -0.45%
Polyvinyl Acetate (PVA) Systems	0.15 -0.45%
Vinyl/Acrylic-Based Systems	0.15 -0.45%
Styrene Butadiene Systems	0.15 -0.45%
Polyester-Based Systems.....	0.15 -0.45%
Polyurethane-Based Systems	0.15 -0.45%
Other Polymer Dispersions	0.15 -0.45%

MATERIALS IN THE TEXTILE INDUSTRY

The weight of P-102 Preservative to be used is based on the total weight of the product to be preserved. The preservative is best incorporated into the materials just following the initial addition of water or other liquid components sufficient to dissolve the preservative. If incorporation happens at later production stages, stirring is recommendable to ensure homogeneous distribution of the preservative throughout the product. In the production of dry printing thickeners, P-102 Preservative should be added toward the end of thickening to minimize any losses of active substance. Recommended Dosages:

Printing thickeners (liquid).....	0.30 -0.60%
Printing thickeners (solid)	2.00 -4.00%
Sizes and finishing agents	0.20 -0.60%
Spinning preparations.....	0.20 -0.30%
Yarn humidifiers	0.20 -0.60%
Printing thickeners (liquid).....	0.30 -0.50%
Other materials and auxiliaries.....	0.20 -0.60%

LEATHER

P-102 Preservative may be dissolved in a suitable solvent and stirred into pickle solutions. In the case of chrome leather, an effective protection against mold attack may be obtained by stirring P-102 Preservative into the solution. Recommended Dosages:

Pickle solution and pickle hides	0.25-0.4%
Chrome leather (calculated on pelt weight).....	0.15- 0.4%
Leather pasting adhesives.....	0.08 -0.15%

Leather pigment finishes0.3 -0.6%

MATERIALS IN THE PAPER INDUSTRY

P-102 Preservative can be metered directly into the products to be preserved following the concentrations as indicated below. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the products. Recommended Dosages:

Filler suspensions and coating compounds0.20 -0.60%
Rosin paper sizes0.30 -0.60%
Starch slurries0.30 -0.60%
Other materials and auxiliaries0.20 -0.60%
Paper Slurries0.20 -0.60%

TEMPORARY SAPSTAIN CONTROL FOR FRESH CUT LUMBER AND OTHER LUMBER

P-102 Preservative may be diluted in water to prepared concentrates. Auxiliaries may also be added. For the temporary protection of freshly sawn lumber against staining and molding, P-102 Preservative solutions as prepared below are applied to freshly sawn lumber by dipping or spraying. Recommended Dosages:

Fresh Cut Lumber.....1.5 - 6%
Fruit and Vegetable Containers1.5 -4.5%
Pallets1.5 -4.5%
Construction Woods.....1.5 - 6%

MATERIALS IN THE OIL INDUSTRY

The weight of P-102 Preservative to be used is based on the total weight of the product to be preserved. To ensure fast and even distribution of the preservative throughout the product, stirring is recommended. In the production of dry products, P-102 should be added toward the end of thickening to minimize any losses of active substance. Recommended Dosages:

Biopolymers, solid0.80 -4.00%
(starch, xanthan, galactiomannan etc.)
Biopolymers, liquid.....0.25 -0.60%
(drilling muds)
Other materials and auxiliaries0.25 -0.60%

ADDITIONAL MATERIALS

The concentration of P-102 Preservative as indicated is based on the total weight of the products to be preserved. For satisfactory results, the preservative must be distributed evenly throughout the product. Recommended Dosages:

Polishing and wax materials0.30 -0.60%
Protein solutions0.50 -0.80%
Ceramic glazes0.30 -0.60%
Biopolymers (e.g. Xanthan)0.08 -0.38%
Photographic Gelatins0.20 -0.4%
Tints.....0.20 -0.40%
Wax Emulsions0.20 -0.6%
Plasters0.15 -0.6%
Caulking Materials0.15 -0.4%
Rubber Systems.....0.3 - 0.8%

PESTICIDE STORAGE AND DISPOSAL

Pesticide Storage

Keep containers tightly and securely closed. Do not contaminate water, food or feed by storage and disposal. Store below 122⁰ F (50⁰ C). Protect from exposure to light and moisture. The product has an unlimited shelf life if protected from light and moisture. See Verichem Inc. Material Safety Data Sheet for P-102 Preservative Solution for additional information.

Pesticide Disposal

Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide 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.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

HEALTH AND SAFETY INFORMATION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER Corrosive: Harmful if swallowed or absorbed through skin.

Causes skin burns and irreversible eye damage. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Wear protective clothing and gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and was clothing before re-use.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by Verichem Inc. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases Verichem Inc. from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind Verichem Inc. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.



For more information call: 1 800 778-5462 • FAX 1 412 331-7884
Or write VERICHEM, 3499 Grand Avenue, Pittsburgh, Pennsylvania 15225

C H E M I C A L S O L U T I O N S F O R M I C R O B I O L O G I C A L P R O B L E M S