



Effective: 05/01/01
Supersedes: -----

EPA Registration No. 39967-22-67869
CAS # 15733-22-9

P - 202 PRESERVATIVE

DESCRIPTION

FOR USE AS A PRESERVATIVE IN THE MANUFACTURE OF ADHESIVES AND GLUES, POLYMER DISPERSIONS AND EMULSIONS, LEATHER, LUBRICOLANTS AND MINERAL OIL BASED PRODUCTS, MATERIALS IN THE PRINTING INDUSTRY, MATERIAL IN THE BUILDING INDUSTRY (e.g. CONCRETE ADDITIVES, JOINT CEMENTS), PAINT AND COATINGS, MATERIALS IN THE OIL INDUSTRY, PIGMENT SLURRIES (KAOLIN-, CALCIUM CARBONATE- AND OTHERS), POLISHES, WAXES, POLISHES, WAXES, PROTEIN SOLUTIONS, CERAMIC GLAZES, FIRE EXTINGUISHING MATERIALS, CLEANING SOLUTIONS AND DETERGENTS.

CHEMICAL AND PHYSICAL DATA

Common Name:	Parachlorometacresol, sodium salt	
Chemical Name:	4-chloro-3-methylphenol	
Minimum Purity:	min. 71.0%	
Density (20°C):	1.36 gm/cm ³	
Vapor Pressure (60° C):	approx. 1.6 x 10 ⁻⁴ hPa (at 21° C)	
Melting Point:	approx. 94° C	
Flash Point:	>185° C	
Ignition Temperature:	approx. 468° C	
Solubility of Active:	Water	580 g/l (20° C)
	Water	700 g/l (50° C)
	Ethonal	approx. 2000 g/l
	Acetonitrile	approx. 2400 g/l
	Ethyl acetate	approx. 10 g/l 9%
	Toluene	<0.5 g/l

Storage: If correctly stored and kept in original sealed container, the shelf life of P-202 Preservative is 1 year.

DIRECTIONS FOR USE

GLUES AND ADHESIVES

The weight of P-202 Preservative to be used is based on the total weight of the adhesive formulation. P-202 Preservative can be metered directly into the products to be preserved following the concentrations as indicated above. To achieve fast and homogeneous distribution throughout the entire product, stirring is recommended. In the production of dry glues, P-202 Preservative should be added toward the end of thickening in order to minimize any losses of active substance.

EFFECTIVE CONCENTRATION

Bone Glues	0.15-0.30%
Skin Glues	0.25-0.50%
Casein-Containing Adhesives	0.30-0.60%
Other Animal Glues	0.15-0.60%
Starch-Based Glues (Liquid)	0.15-0.40%
Starch-Based Glues (Solid)	0.40-2.00%
Methyl Cellulose Adhesives.....	0.25-0.40%
Other Plant-based Adhesives.....	0.15-0.40%
Polyvinyl Alcohol Adhesives.....	0.15-0.40%
Acrylic Adhesives	0.15-0.40%
Styrene Butadiene Adhesives	0.15-0.40%
Other Adhesive Emulsions.....	0.15-0.40%
Gumarabic and Similar Adhesives	0.20-0.35%

POLYMER DISPERSIONS AND EMULSIONS

P-202 Preservative should be added immediately after the preparation of the polymer dispersion or emulsion during the cooling process. Losses of active ingredient caused by elevated temperatures should be taken into account and avoided by suitable measures. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the products.

EFFECTIVE CONCENTRATION

Acrylic.....	0.15 - 0.40 %
Polyvinylacetate (PVAC).....	0.15 - 0.40 %
Styrene Butadiene (SBR Latex)	0.15 - 0.40 %
Other polymer emulsions	0.15 - 0.40 %

LEATHER

The weight of P-202 Preservative to be used is based on total weight of the product to be protected. P-202 Preservative can be metered directly into the products to be preserved following the concentrations as indicated above. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the products.

In the case of chrome leather, an effective protection against mold attack may be obtained by incorporation of P-202 Preservative into the basifying solution

EFFECTIVE CONCENTRATION

Pickle solutions and pickled hides.....	0.25 - 0.40 %
Chrome leather (on pelt weight).....	0.15 - 0.35 %
Leather pasting adhesives.....	0.10 - 0.20 %
Leather pigment finishes	0.30 - 0.65 %

METAL WORKING FLUIDS

P-202 Preservative can be incorporated into the original concentrate of metalworking fluids (the compatibility with the fluid to be preserved should be evaluated before this method is attempted). P-202 Preservative is equally suitable for tank side addition.

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. Pre-dissolution in water may be favorable.

EFFECTIVE CONCENTRATION

Metal working fluids-Mineral oil based

Metalworking fluids (concentrates).....2.00 - 5.00 %
Metalworking fluids (ready for use).....0.20 - 0.50 %

Metalworking fluids-Non-Mineral Oil Based

Metalworking fluids (concentrates).....2.00 - 5.00 %
Metalworking fluids (ready for use).....0.20 - 0.50 %

MATERIALS IN THE PRINTING INDUSTRY

The weight of P-202 Preservative to be used is based on total weight of the product to be protected. P-202 Preservative can be metered directly into the products to be preserved following the concentrations as indicated above. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the products.

EFFECTIVE CONCENTRATION

Inks0.10 - 0.35 %
Fount solutions0.10 - 0.35 %
Printing pastes0.30 - 0.50 %
Other printing materials and auxiliaries0.10 - 0.50 %

MATERIALS IN THE BUILDING INDUSTRY

The weight of P-202 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 recommended to ensure homogeneous distribution of the preservative throughout the product.

EFFECTIVE CONCENTRATION

Joint cements materials0.15 - 0.40 %
Bitumen emulsions.....0.25 - 0.65 %
Concrete additives0.35 - 0.65 %
Other materials and auxiliaries0.20 - 0.65 %

MATERIALS IN THE COATINGS INDUSTRY

The weight of P-202 Preservative to be used is based on the total weight of the coating material. The preservative is best incorporated into the products 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 recommended to ensure homogeneous distribution of the preservative throughout the product.

EFFECTIVE CONCENTRATION

Dyestuff paste, knifing fillers and plastic putty0.15 - 0.30 %
Casein based coatings0.35 - 0.65 %
Synthetic resin dispersions0.15 - 0.40 %
Other auxiliaries and coating materials0.15 - 0.65 %

MATERIALS IN THE PAPER INDUSTRY

P-202 Preservative can be metered directly into the products to be preserved following the concentrations as indicated above. If necessary, pre-dissolution in water is easily possible due to good water solubility of the preservative. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the entire product.

EFFECTIVE CONCENTRATION

Filler suspensions and coating compounds	0.10 - 0.35 %
Rosin paper sizes	0.20 - 0.40 %
Starch slurries	0.20 - 0.50 %
Other materials and auxiliaries	0.10 - 0.50 %

MATERIALS IN THE TEXTILE INDUSTRY

P-202 Preservative can be metered directly into the products to be preserved following the concentrations as indicated above. If necessary, pre-dissolution in water is easily possible due to good water solubility of the preservative. Good stirring is recommended to ensure fast and even distribution of the preservative throughout the entire product.

In the production of dry printing thickeners, P-202 Preservative should be added toward the end of thickening to minimize any losses of active substance.

EFFECTIVE CONCENTRATION

Printing thickeners (liquid).....	0.20 - 0.30 %
Printing thickeners (solid)	1.00 - 4.00 %
Sizes and finishing agents	0.20 - 0.40 %
Yam humidifiers.....	0.15 - 0.35 %
Other materials and auxiliaries.....	0.15 - 0.40 %

MATERIALS IN THE OIL INDUSTRY

The weight of P-202 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-202 Preservative should be added toward the end of thickening to minimize any losses of active substance.

EFFECTIVE CONCENTRATION

Biopolymers, solid	1.00 -4.00 %
(starch, xanthan, galactomannan etc.)	
Biopolymers, liquid.....	0.15 - 0.40 %
(drilling muds)	
Other materials and auxiliaries.....	0.15 - 0.40 %

PIGMENT SLURRIES

The weight of P-202 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 disperse the preservative. If incorporation happens at later product stages, stirring is recommended to ensure homogeneous distribution of the preservative throughout the product.

EFFECTIVE CONCENTRATION

(Kaolin-, Calcium carbonate-Talcum-, Iron oxide etc.)

Kaolin slurry.....	0.025 - 0.125 %
Calcium carbonate slurry.....	0.020 - 0.10 %
Talcum slurry	0.025 - 0.125 %
Iron oxide slurry	0.020 - 0.125 %

ADDITIONAL MATERIALS

The concentration of P-202 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.

EFFECTIVE CONCENTRATION

Polishing and wax materials.....	0.20 - 0.60 %
Protein solutions.....	0.30 - 0.50 %
Ceramic glazes	0.20 - 0.30 %
Fire extinguishing materials	0.20 - 0.50 %
Cleaning solutions, detergents.....	0.15 - 0.30 %

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