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## WOOD PRESERVATION ADDITIVES

**We offer highly specialized chemicals to preserve woods from the attack of decay fungi, harmful insects, or marine borers as well as additives for formulating protective and decorative treatments.**

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## PRESERVATION

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### **2-Ethylhexanoic acid -99.5%**

2-Ethylhexanoic acid (EHA) and its metal salts are used as wood preservatives. EHA can be renewably produced.

### **Arsenic Trioxide**

Arsenic trioxide is used in the manufacturing of copper chrome arsenate (CCA), a preservative used to prevent insects, wood rot and wood fungus from damaging timber and timber structures.

### **Chromium Trioxide**

Chromium trioxide is used in wood preservation to enhance weathering resistance, water repellence, fungal and microbe resistance. It reduces water induced swelling and shrinkage and increases the performance of paints and stains applied to the treated wood. Chromium trioxide is used in the manufacturing of the wood preservative chromated copper arsenate (CCA).

### **Copper(II) Hydroxide**

Copper(II) hydroxide is used in the manufacture of copper(II) compounds used in wood preservation such as copper naphthenate and copper-2-ethylhexanoate. These preservatives protect wood against fungal rot, decay, microbes and insects.

### **Copper Pyrithione (CPT)**

CPT is mainly used in anti-fouling marine paint, coatings, metal processing and pesticides. CPT has properties of low toxicity and high efficiency. When mixed cuprous thiocyanate, CPT has antibacterial and anti-algae properties.

### **Copper(II) Oxide**

Copper(II) oxide is used in the manufacture of wood preservatives such as copper chrome arsenate (CCA), a preservative used to prevent insects, wood rot and wood fungus from damaging timber and timber structures.

### **Cuprous Thiocyanate**

Cuprous thiocyanate is a highly effective antifouling agent. It is mainly used as an antifouling coating for marine applications. When it is mixed with sodium pyrithione or copper pyrithione it has antibacterial and anti-algae properties.

### **Sodium Pyrithione (SPT)**

SPT is used in architectural coatings, adhesives, sealants, pesticides, textiles, leather products, metalworking fluids and other fields for prevention of mildew and bacteria. It can also be used to formulate products such as hair care, disinfectants, detergents and medical antifungal dermatology drugs.

### **Zinc Borate**

Zinc borate is used in wood preservation as a corrosion inhibitor, fire-retardant, infrared absorber and fungicide. The resulting wood is highly resistant to decay, fungi and insects.

### **Zinc Pyrithione (ZPT)**

The mixture of ZPT and cuprous oxide can be used as a marine antifouling coating to prevent the growth of crustaceans, seaweeds and aquatic organisms on hulls. ZPT is also a highly effective anti-scale agent, removing dandruff, diminishing balding and deferring poliosis. Therefore, it is considered a highly effective and safe product. Available in Aqueous Dispersion and Powder

## IMPREGNATION / FIRE- RESISTANT TREATMENTS

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### **Silicates**

#### **Lithium Silicates**

By adding small additions of Lithium Silicates, wood can be made fire-resistant by impregnating it with a solution containing a soluble silicate and then treating the impregnated wood with sufficient carbon dioxide to form a silicon dioxide polymer.

#### **Potassium Silicate**

Potassium Silicate is used to impregnate wood to render it resistant against fire. A variety of grades are available .



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ASG Chemical Holdings, LLC • Bulk Chemicals and Specialty Performance Materials • [www.asgchemie.com](http://www.asgchemie.com)  
2603 NW 13th St. #231 Gainesville, FL 32609 • **Main** : 352.432.1481 • **Fax** : 352.430.7442 • **Toll Free** : 1.833.ASG.CHEM (274-2436)

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