

# PRODUCT DATA SHEET



## CONTACT INFORMATION:

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## CHEMICAL NAME:

**FLAME STOP I™**

## TESTED BY:

**U.S. TESTING COMPANY INC.**



## DESCRIPTION:

Flame Stop I™ is a **post-treatment** indoor fire retardant. This product **dries clear**. When used on **porous wood** such as Douglas Fir or Pine, it will provide a class B rating. This product is also very effective on **most synthetic fabrics**. Flame Stop I **penetrates wood** and becomes **part of its molecular structure**. When the treated material is subjected to an open flame, the retardant will **pyrolitically self-extinguish fire** with **minimum smoke**. Flame Stop I is completely **non-toxic and non-hazardous** to the environment and **simple to apply**.

## BASIC USES:

Flame Stop I is used for interior applications such as: **draperies, wall coverings, carpet, furniture, cotton Muslin, paper/straw, most synthetics, redwood, cedar, Douglas fir, etc.** This product is used widely in restaurants, hotels, hospitals, homes and many other commercial and residential buildings.

## ADVANTAGES:

**Class B one coat system. 35 flamespread 15 smoke developed.** Since Flame Stop I penetrates and becomes part of the substrate, the life of the flame retardancy is **indefinite** as long as fabrics are not wet washed, however they may be **dry cleaned up to 20 times**. All of our products were tested using **single-coated materials**. Flame Stop I has many uses and is our most universal fire retardant. Flame Stop I **will not deteriorate** because it is not a coating instead it penetrates and **becomes part of most materials**. This product **will not alter the structural integrity of the wood**. Flame Stop I is often chosen because it is **non-toxic, dries clear, easy (spray, brush or roll) application**. Once cured (24 hrs.) The treated material may be painted with a latex paint.

## LIMITATIONS:

Do not dilute.

Storage Range: 110 degrees F. to 45 degrees F. Shelf Life: 3 years if kept within storage temperatures.

## APPLICABLE STANDARDS:

Flame Stop I has been tested to the following standards:

ASTM E-84, NFPA 255, UL 723: U.S. Testing #LA 62192, CA Reg. #C-14401 NFPA 701

## APPLICATION:

Flame Stop I can be applied as is by spraying or immersing. In order to be effective there must be a 2-5% increase in the weight of the fabric, if material is synthetic such as Nylon a heavier coat may be needed. Since all fabrics have a different density a small test should be performed by the utilization of a small flame (butane lighter). Hold a 4" X 12" piece of the treated material vertically and apply the flame to the lower portion for 10 seconds, remove the ignition source. The flame must go out within 2 seconds. (This test is similar to the small-scale NFPA 701 field test) Apply to wood at the rate of 200 square feet per gallon, use low pressure spraying equipment, brush or roll.

\*\*\*\*After treatment a 24 hour conditioning period is necessary before testing\*\*\*\*

**FLAMESPREAD 35 AND SMOKE DEVELOPED 15 ON WOOD**

## WARRANTY:

This product is sold on condition that the user will evaluate them to determine their suitability and no other warranty is implied since we have no control over the application.

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## Technical Support

|                                   |   |
|-----------------------------------|---|
| <i>Total Solids:</i>              | <i>10%</i>                                |
| <i>Wt Per Gallon:</i>             | <i>9 lbs..</i>                            |
| <i>Average pH:</i>                | <i>5.0</i>                                |
| <i>Color:</i>                     | <i>clear</i>                              |
| <i>Solvents:</i>                  | <i>water</i>                              |
| <i>Bacterial:</i>                 | <i>good resistance</i>                    |
| <i>Fungus:</i>                    | <i>good resistance</i>                    |
| <i>Volatility:</i>                | <i>none</i>                               |
| <i>Toxic:</i>                     | <i>no</i>                                 |
| <i>Biodegradeable:</i>            | <i>yes</i>                                |
| <i>Corrosive:</i>                 | <i>mildly corrosive on unplated steel</i> |
| <i>Linear Shrinkage:</i>          | <i>None</i>                               |
| <i>Insects, Rodents and mold:</i> | <i>Excellent Resistance</i>               |