

CHEMICAL NAME:

# FLAME STOP® I

## PRODUCT DATA SHEET



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### 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 pyrolytically reduce the flames spread of wood and self-extinguish the flame of most fabrics if treated properly. Flame Stop I is 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. A strong compatibility test is recommended.

### 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

### FABRIC 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).

### WOOD APPLICATION:

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

September, 2008

### WARRANTY:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.

### Technical Support

Total Solids:	10%
Wt Per Gallon:	9 lbs.
Average pH:	7.0
Color:	clear
Solvents:	water
Bacterial:	good resistance
Fungus:	good resistance
Volatility:	none
Toxic:	no
Biodegradeable:	yes
Corrosive:	mildly corrosive on unplated steel
Linear Shrinkage:	None
Insects, Rodents and mold:	Excellent Resistance



C-14401

TESTED BY:  
U.S. TESTING  
COMPANY INC.