

FLAME STOP INC.
1-877-FYRSTOP

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Flame Stop I-DS

Flame Stop I-DS™ is a pyrolitic formulation that prevents the spread of flames by developing a chemically self-extinguishing reaction. Flame Stop I-DS™ is a clear, penetrating chemical.

Flame Stop I-DS™ has been used on various materials such as thatching, mulch, bamboo, foam rubber(open and closed cell), nylon netting and many other difficult to treat materials.

This product is a Class A rated fire retardant and can be used for exterior purposes. It can be applied by either dipping or spraying and can be top coated with any latex paint system.

This product dries clear. This product is highly concentrated and has significant wetting properties. Flame Stop I-DS was designed to penetrate and effectively fire retard open and closed cell structures. When the treated material is subjected to an open flame, the retardant will pyrolitically **self-extinguish fires with minimal smoke.**

Flame Stop I-DS is completely non-toxic and non-hazardous to the environment!

Plus, it's so simple to apply to most surfaces!

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FABRIC EXCEPT
~~VINYL~~
LINATHIN
SPANDEX

CHEMICAL NAME:

FLAME STOP® I-DS

PRODUCT DATA SHEET



1-877-397-7867

WWW.FLAMESTOP.COM

924 BLUE MOUND RD.

FT. WORTH, TX 76131

817-306-1222

FAX 817-306-1733

E-MAIL: info@flamestop.com

DESCRIPTION:

Flame Stop I-DS is a post-treatment pyrolitic interior/exterior fire retardant penetrant. This product dries clear. This product is highly concentrated and has significant wetting properties. I-DS was designed to penetrate and effectively fire retard open and closed cell structures. When the treated material is subjected to an open flame, the retardant will pyrolitically self-extinguish fire with minimum smoke. Flame Stop I-DS is completely non-toxic and non-hazardous to the environment and simple to apply.

BASIC USES:

Flame Stop I-DS is used for interior and exterior applications such as: open and closed cell foams, foam rubber, nylon netting, exterior composition siding, thatching, bamboo, hardwoods, synthetic fabrics, plastics and many other difficult to penetrate materials.

ADVANTAGES:

Class A one coat system. 10 flame spread on Reed Thatching. FAA Certified. Since Flame Stop I-DS penetrates and becomes part of the substrate, the life of the flame retardancy is indefinite in most cases. All of our products were tested using single-coated materials. Flame Stop I-DS has many uses and is our most concentrated fire retardant. Flame Stop I-DS will not deteriorate because it is not a coating instead it penetrates and becomes part of most materials. Flame Stop I-DS is often chosen because it is non-toxic, dries clear, easy (spray, brush or roll) application. Once cured for 24 hours the treated material may be painted with most latex based paints.

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-DS has been tested to the following standards:

ASTM E-84, NFPA 255, UL 723: U.S. Testing Title 4 #LA 63494 (Ether Foam), Omega Point Laboratories #8924-89133 (Reed Thatching) FAR 25.853 (Polyurethane Foam) CA Reg. #C-14401 NFPA 701

APPLICATION:

All materials to be treated should be clean. Flame Stop I-DS can be applied as is by spraying or immersing. 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.

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

FLAMESPREAD 10 on Reed Thatching

September 22, 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:	35%
Wt Per Gallon:	10 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



U.S. TESTING COMPANY INC.,
OMEGA POINT LABORATORIES,
AIRLINE FABRICARE.

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY INFORMATION

DATE: September 2008

Product Name: Flame Stop I, I-C, I-DS, II, III and IV
Hazard Rating: Health: 1 Fire: 0 Reactivity: 0 PPI:

Company Identification: Flame Stop, Inc.
924 Blue Mound Rd.
Fort Worth, TX 76131
Telephone: 1-877-397-7867
Chemtrec (24 hr): 1-800-424-9300

Product Class: Proprietary
Shipping Name: One of the following:
Flame Stop I, I-C, I-DS, II, III, IV

SECTION II – INGREDIENT AND HAZARD INFORMATION

PROPRIETARY NON HAZARDOUS CHEMICALS

SECTION III – PHYSICAL DATA

Form: liquid
Appearance/color: clear, Flame Stop II is white
pH Value: 6.5 - 7.5
Boiling Range: 212F
Evaporation Rate: Slower than n-Butyl Acetate
Vapor Density: Heavier than air
% Volatile Weight: N/A
% Volatile / Volume: N/A
Specific Gravity: proprietary

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flammability Class: IIIB
Flash Point: N/A
Extinguishing Media: Carbon Dioxide, Foam, Dry Chemical, water
Special Firefighting Procedures: Use self contained breathing apparatus
Unusual Fire and Explosion Hazards: none

SECTION V – HEALTH HAZARD DATA

Effects of Over Exposure:
Eye irritation, nausea. Prolonged exposure may cause drying of the skin.

Permissible Exposure Level: Undetermined
First Aid:
INHALATION: Remove from exposure area
EYE CONTACT: Flush with water for 15 minutes
SKIN CONTACT: Wash with soap and water
POSSIBLE ROUTES OF ENTRY: Inhalation, ingestion, skin absorption

SECTION VI – STABILITY AND REACTIVITY

Stability: Yes
Hazardous Polymerization: Will not occur
Incompatibility: Avoid water-reactive agents.
Hazardous decomposition Products: Carbon Monoxide, Carbon Dioxide

SECTION VII – SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Remove spills with inert absorbent.
Waste Disposal Method:
Dispose of in accordance with Federal, State and Local regulations.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits
ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL
RESPIRATORY PROTECTION: If in direct contact or spray application use a dust or paint mask.
VENTILATION: Required only when applying in a confined area
EYE PROTECTION: Wear safety glasses or goggles to guard against splashes.
PROTECTIVE GLOVES: Not required unless direct contact

DISCLAIMER: The data herein is believed to be correct. However, since conditions of use are outside our control it does not represent a warranty or representation for which Flame Stop, Inc. assumes any legal responsibility. Flame Stop makes no guarantee or warranty since they have no control over application conditions.