



# DRI-ONE

Class A Flame Protection



Made in The USA



Established 1958

**PROTECT WHAT MATTERS BEFORE IT'S TESTED.**

[www.DRI-ONE.com](http://www.DRI-ONE.com)

# America's Flame Retardant

Office: (480) 964-0200  
E-mail: [drone.fr@gmail.com](mailto:drone.fr@gmail.com)



Established 1958



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Flame Retardant Liquid Solution



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# America's Flame Retardant

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Class A Fire Retardant Liquid Solution



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## What is DRI-ONE?

- Class A flame retardant
- Easy to use – brush, roll, dip, or spray
- Safe – non-toxic – non-hazardous Formula
- Ready to use, requires no dilution or mixing
- Retards both fire and Smoke by limiting flame spread
- Clear, water based, odorless and dries clear flame retardant.
- The treated item can be painted or stained after the DRI-ONE has dried
- Covers minimum 200 square feet per gallon depending on wood type
- Covers minimum 140 square feet per gallon depending on material type
- Packaged in quarts, gallons, 5 gallon pails, 55 gallon drums & 275 Gallon Tote

## Multi-Protection Applications



Natural Fabrics



Raw Lumber



Absorbent Materials



Jute, Burlap, & Thatch



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## Instructions for DRI-ONE Products

**APPLICATION:** For best coverage, spray evenly, coating entire surface. Two coats are recommended. Dry thoroughly before applying 2nd coat. Drying time varies according to temperature and humidity.

**TOOLS:** Spray, roll, brush, airless spray gun or submerge unfinished wood or other forest products. Once treated and dried, apply your choice of final finishes such as sealers, stains, undercoats, primers, and paint.

**COVERAGE:** 200-300 sq. ft. per Gallon. The suggested manufacturer's minimum of 200 square feet per gallon on wood type. Do Not Dilute. Not recommended for use on plants or greenery.

**SURFACE PREPARATION:** Material must be clean, dry and free from oils. DRI-ONE® is NOT effective when applied to non-absorbent surfaces and wood which has been previously sealed or painted with water repellents, stains, paints and other finishes.

**SAFETY:** Keep out of reach of children. Use rubber gloves and eye shields if product causes irritation, clean up with clear water. Store in original container, tightly closed. Avoid skin contact and do not inhale spray mist. Avoid contamination of any water supply with chemical or empty container. Avoid eye contact. Flush eyes with clear water if necessary. DRI-ONE® is non-toxic and non-hazardous.

**DRY TIME:** DRI-ONE is just a little heavier than water; gauge your drying time accordingly. Weather conditions (rain and humidity) should also be taken into consideration.

**FIRE TEST:** Always perform a fire test to verify your application is successful. Once treated items are thoroughly dried. Perform a small scale test similar to NFPA 701 field test on a treated sample piece. Use a lighter, match and or Butane lighter on a test piece to verify that your application was applied correctly. The Flame MUST Self-Extinguish within 2 seconds once fire source is removed. Test every 3-5 years, if the area treated has lost its protective barrier then you should reapply.

No warranty either expressed or implied is given, as the manufacturer has no control over the manner in which the product is used.

### CERTIFICATION

California Administrative Code, Title 19  
NFPA 701

Steiner Tunnel Test A.S.T.M. E 84

Similar NFPA No. 225, ANSI 2.5, UBC No. 42-1, UL No. 723



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## Fire Performance Chart

# DRI-ONE

Flame Retardant Liquid Solution

### DRI-ONE Fire Performance

**DRI-ONE® Agency Approval**

- ✓ NFPA 701
- ✓ CAL. Admin. Code Title 19
- ✓ A.S.T.M. E-84 Steiner Tunnel

DRI-ONE Flame Retardant Meets or Exceeds Class A Rating

	Flame Spread Index	Smoke Developed Index
Class C 76-200	0-450	0-450
Class B 26-75	0-450	0-450
Class A 0-25	0-450	0-450

DRI-ONE® Flame Retardant Proven and Tested Product Since 1958

DRI-ONE® is recognized by Fire Marshals & Building Officials in major metropolitan areas throughout the United States & many other countries.

The Steiner Tunnel is a 25-foot-long furnace used since the 1940s to test the surface burning characteristics of building materials, primarily for flame spread and smoke development.



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## Selection Guide

**Desert Research Institute, Inc.**



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**DRI-ONE**  
Selection Guide

**Class A**

Flame Retardant Liquid Solution

**Commercial Size**  
**275 Gallon Tote**

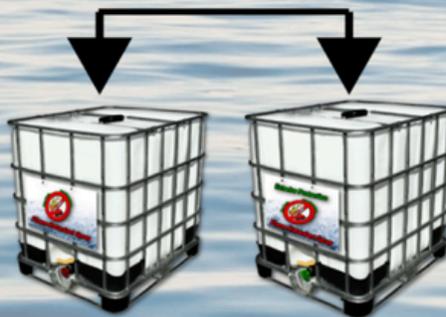
**Interior**  
Protection

**Exterior**  
Protection



Combo - 5 Gallon Pail - 55 Gallon Drum

Natural Textiles, Home Decor,  
Raw Lumber, Framing & More



55 Gallon Drum - 5 Gallon - One Gallon

Raw Lumber, Decking, Fencing, End-Cuts,  
Thatch, Dead Vegetation & More

### DRI-ONE Recommended Coverage Chart

Over 68 years of Real Time Field Data Protection

	Quart	50 Sq. Ft.	<p>For Maximum Protection</p> <p>DRI recommends 200 square feet per gallon on wood applications and 140 square feet per gallon for textile applications.</p> <p>Square footage varies depending on certain materials and applying techniques.</p>
	Gallon	200 Sq. Ft.	
	5 Gallon	1,000 Sq. Ft.	
	55 Gallon	11,000 Sq. Ft.	
	275 Gallon	55,000 Sq. Ft.	



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**DRI-ONE® has been used in both the Business & Personal Environments for over 60 years.**

**DRI-ONE® Can be Applied in Construction, Existing Structures & Items**

## **MULTI-PROTECTION** **DRI-ONE APPLICATIONS** **Class "A" Flame Retardant**

**Ready to Use, No Mixing Required**

**Schools  
Day-Cares / Nursing Homes  
Libraries / Housing  
Government Facilities  
Nuclear Power Plants  
Restaurants / Amusement Parks  
& More**



- **Construction**
- **Libraries**
- **Housing**
- **Restaurants**
- **Government facilities**
- **Nuclear Power Plants**
- **Hospitals / Nursing Homes**
- **Schools / Daycare Centers**





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## Items to Treat

- Draperies / Curtains
- Carpets / Mats
- Dead Vegetation
- Decorative Items
- Arts / Crafts
- Wallboard's / Paneling
- Wood / Lumber
- Bamboo / Thatch
- Natural Fabrics
- Canopies/Tents
- Paper / Pulp / Forest Products
- Roofs / Rafters

## MULTI-PROTECTION DRI-ONE APPLICATIONS Class "A" Flame Retardant

Ready to Use, No Mixing Required

Raw Wood  
Decking  
Fencing  
Framing / End-Cuts  
Wood Beams  
Shingle Shake / Roofs / Rafters  
Wallboard's Paneling & More





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**At DRI, Inc. Customer Service is Our Highest Priority and We Will Always Strive to Exceed Your Expectations!**

## **For Product Documentation**

Please visit our website at  
**[www.dri-one.com](http://www.dri-one.com)**

**Click on the Tech Sheets Tab, Select the Documentation, & Print**

- Fabric Treatment Process
- Fabric Treating Certification Form
- Sample Fabric Treating Certificate Form
- Lumber Treatment Process
- Lumber Treating Certificate Form
- Lumber Finishing Instructions
- Shake Roof Treatment Instructions
- MSDS Sheet
- Q's & A's

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**DRI-ONE® meets the NFPA 701 and the California Administrative Code, Title 19 for fabric.**

**DRI-ONE® meets A.S.T.M. E-84 Flame Spread Test Class "A" for wood, also known as the Steiner Tunnel Test. This method is similar to ANSI 2.5, NFPA No. 225, UBC No. 42-1 and UL No. 723.**

***The tests are recognized by Fire Marshals and building officials in major metropolitan areas throughout the United States and many other countries.***



# DRI-ONE

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## FAQ

Find quick answers to your questions below...

- **What is flame retardant?** A chemical product used to treat items in order to prevent combustion and flame support during a fire.
- **How do I use DRI-ONE?** The item to be treated can be sprayed, rolled, brushed, painted or dipped in DRI-ONE.
- **What is the coverage?** Rule of thumb is 4.5 SQ. meters per liter for wood and forest products; 3.5 SQ. meters per liter for fabrics.
- **Is DRI-ONE harmful to people or pets?** No.
- **Is DRI-ONE harmful to plants?** Yes, it could cause some burning on living plants, any over-spray should be rinsed off with clear water.
- **Is DRI-ONE harmful to the environment?** No, DRI-ONE is non-toxic and non-hazardous.
- **Will it stain or cause discoloration (salt rings)?** No, however if color runs when exposed to water, it will do the same with DRI-ONE.
- **Will DRI-ONE wash out?** Yes.
- **How about dry cleaning?** You can dry clean up to 4 times before it becomes necessary to retreat. Testing is recommended.



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Find quick answers to your questions below...

- **Can I dry a treated cloth in the clothes dryer?** Yes, remove the item when dry and wipe over the drum with a damp cloth.
- **Will DRI-ONE work on paper and cardboard?** Yes, it will be necessary to use a very fine spray and probably make two applications, letting the item dry between treatments.
- **Is DRI-ONE corrosive to metal? DRI-ONE is Non-Corrosive to metals when dry.** DRI-ONE is mildly corrosive when applied wet to metals. Wash any metal surfaces exposed to DRI-ONE with a damp cloth or rinse with clean water.
- **What is the drying time for items treated with DRI-ONE?** DRI-ONE is just a little heavier than water, gauge your drying time accordingly. Weather conditions (rain and humidity) should also be taken into consideration.
- **Can I iron fabric treated with DRI-ONE?** Yes
- **Does it smell?** Only slightly until dry.
- **Can I tell if something has been treated?** Only by performing a flame test.
- **What do I do if fabric becomes stiff after treatment?** If some stiffness is undesirable, lightly brush the fabric.
- **Will DRI-ONE work on a shake roof which was treated with linseed oil 5 years ago?** Yes, the previous treatment will have leached out enough for the shakes to accept DRI-ONE. Will DRI-ONE leach out of a shake roof? Yes, the shakes should be tested and probably re-treated after 5 years.



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Find quick answers to your questions below...

- **When will I know to re-treat with DRI-ONE?** The item should undergo a burn test.
- **Can I use DRI-ONE on painted or stained surfaces?** No, DRI-ONE must be able to penetrate into the item in order to be effective.
- **Can I paint or stain items that have already been treated with DRI-ONE?** Yes, just make sure the DRI-ONE is completely dry before applying a finish.
- **Will DRI-ONE raise the grain on wood?** Yes, on some types of wood, a fine sanding will correct the situation.
- **How long does DRI-ONE last on fabric and wood?** It varies. If the item is exposed to the elements, testing should be performed from time to time. If the item is in a protected area the DRI-ONE could last indefinitely.
- **Do I need to treat both sides?** Yes
- **Can I use DRI-ONE with stain or water repellents?** Yes. Treat with DRI-ONE first, let dry thoroughly, then apply the stain or other finishes.
- **Will DRI-ONE work on synthetics?** The DRI-ONE should be applied twice, allowing fabric to dry between applications. Brushing DRI-ONE into the synthetic seems to help. Each different type of synthetic should then be tested to determine whether or not it is flame retardant.



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Find quick answers to your questions below...

- **Will DRI-ONE work on racing uniforms?** It will depend on the type of fabric. When in doubt, treat and test the fabric. Also, remember, DRI-ONE will wash out and need to be reapplied.
- **Will DRI-ONE provide a class A or B rating?** Class A on fabric and class A on wood.
- **Is DRI-ONE FAA, UL, or ICBO approved?** No, it has been tested using the ASTM-E84-81A flame spread test.
- **Is DRI-ONE colorfast?** Yes, however each fabric should be tested for it's own color fastness.
- **Will DRI-ONE work on Christmas trees or greenery?** No, it is too high in nitrogen and will cause needle drop and burning on greenery.
- **Will DRI-ONE give the same rating on all types of wood?** DRI-ONE will always give a "A" rating. The rating can improve on some woods which are different from the test standard, Douglas Fir.
- **Will DRI-ONE work on foam rubber and Styrofoam?** On a very limited basis.
- **Can I drink DRI-ONE?** It won't hurt you; however it won't taste very good. If a child or a pet accidentally swallows DRI-ONE, just have them drink 8 to 10 ounces of water.



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