

STOP POTENTIAL FIRES BEFORE THEY REACH YOUR HOME!

PHOS-CHEK® HOME DEFENSE STOPS FIRES DEAD IN THEIR TRACKS

EASY SPRAY ON SOLUTION

Concentrated Formula - Makes 5 Gallons

PLANNING THE SPRAY

Careful planning is required before spraying Phos-Chek® Home Defense. Please see inside flap under back panel for further detailed instructions.



**PROTECT
YOUR
HOME
FROM FIRE**

LONG-TERM FIRE RETARDANT

PROVIDES PROTECTION FOR MONTHS

**Now for HOME OWNERS!
Without the Red-Color!**



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HOME DEFENSE FIRE RETARDANT

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**SPRAY
THESE
AREAS**

- A** Perimeter
- B** Around Outbuildings
- C** Brush
- D** Cut Wood

**AVOID
SPRAYING
THESE AREAS**

- 1** Irrigated Areas
- 2** Streams & Ponds
- 3** Domestic Water



Warning: This is only an example. Read Safety Information in Inside Flap before planning your spray.



PHOS-CHEK®
HOME DEFENSE FIRE RETARDANT



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**CONCENTRATED FORMULA .75 GAL
MAKES 5 GALLONS**

The Only Long-Term Fire Retardant
Trusted by the USDA Forest Service to Contain Wildfires



WARNING! If you see a fire, call 911 first



Phos-Chek® Home Defense Fire Retardant **should only be applied when conditions are safe to do so**, preferably early in the summer and well ahead of an active wildfire or evacuation notice. It is not intended for fighting a fire that is actively threatening a property. All evacuation orders from police and fire officials should be strictly adhered to.
Caution: This product is minimally irritating to the eyes. Keep out of the reach of children

How much do I need?

You will need to spray a protective barrier where wildfire risk exists. The amount of Phos-Chek® Home Defense depends on the type & height of the vegetation.

Vegetation Type	Height of Vegetation	Spray Width*	Perimeter Covered per Mixed Gallon	Example: A 1,000 ft. perimeter with mostly grass and a few bushes and trees will require 10 gallons of Phos-Chek made by two .75 gallon containers of concentrate. * The spray width should be twice the height of the vegetation.
 Grass	6 in.	12 in.	100 ft.	
 Brush/ Bushes	3 ft.	6 ft.	30 ft.	
 Trees	8 ft.	16 ft.	10 ft.	

Protect your family and home from wildfire with Phos-Chek® Home Defense Fire Retardant - the safest, most effective, and environmentally friendly long-term fire retardant available today.

For over 50 years the USDA Forest Service and our nation's wildland firefighters have successfully used Phos-Chek Fire Retardant to protect Lives, Property and Resources from the damaging effects of wildfire. You've seen it in action on TV as the "red stuff" dropped from planes onto wildfires below. And now, Phos-Chek is finally available for home defense - without the red color! Phos-Chek® Home Defense is an environmentally safe, long-term fire retardant. Applied months in advance or hours before a wildfire reaches your home, Phos-Chek can significantly increase the chances of your home surviving a wildfire, especially when used in combination with other principles of defensible space as recommended by your local fire officials.

How it Works

Fire is a chemical reaction. It spreads by preheating fuels in front of it, such as grass, plants, branches, and other cellulose materials. When these fuels get hot enough, gases combust and fire ignites on the new fuels. Phos-Chek works by preventing this chemical reaction from occurring. When the heat from fire reacts with fuels coated in Phos-Chek, water and carbon graphite are formed instead. The water boils off, cooling the fire. And the carbon graphite forms a protective, non-flammable barrier around the fuels, effectively preventing a wildfire from moving closer to your home.

Long Term PROTECTION

Phos-Chek is the only long-term fire retardant available to consumers that is tested, approved and trusted by the USDA Forest Service. A single application can protect your home for months while the weather remains dry. Foams and gels, on the other hand, must be applied within minutes or hours of a wildfire reaching your home - at which point, you may already be evacuating.

Environmentally FRIENDLY

We believe protecting the environment is as important as protecting your home. That's why Phos-Chek contains ingredients that are safe and have met strict USDA Forest Service toxicity requirements. It has the additional benefit of providing nutrients for plant growth and resprouting. Phos-Chek is approved for use by the USDA Forest Service, is colorant free, and is safe for the environment, people and animals.

Easy to Use No Mess to Clean

Our concentrated Phos-Chek formula mixes easily with water (peel back flap for details), and can be applied using a standard home garden sprayer. There is no need to purchase highly specialized and costly equipment. Phos-Chek dries clear and is virtually unseen on vegetation, unlike gels which can leave behind a residue that requires significant effort to clean.

Components: Ammonium Polyphosphate, CAS No. 68333-79-9; Attapulgus Clay, CAS No. 8031-18-3; & Performance Additives, Trade Secret.

**PEEL OPEN LABEL
FOR MORE INFORMATION &
APPLICATION INSTRUCTIONS**

US Patents
Protected by U.S. Patents 6,620,348, 6,780,991,
6,802,994, 6,828,437, 6,852,853, and 6,905,639.

Made in the USA

Contact Info:
Sold by ICL Performance Products
622 Emerson Rd. Suite 500
St. Louis, MO 63141
info.phoschek@iclppl.com
www.Phos-Chek.com

How to Use

Careful planning is required before spraying Phos-Chek® Home Defense Fire Retardant. With our concentrate formula, this involves the timing of the application, mixing, areas to be sprayed, and the amount needed. Please read below for details.

Timing

While Phos-Chek can be applied within hours of a wildfire reaching your home, Phos-Chek is best used as a pre-treatment before a wildfire begins. Therefore, it is best to apply Phos-Chek at the start of fire season, where it will remain effective throughout the entire fire season so long as the weather remains dry. Rainfall of ¼" or more will wash Phos-Chek off treated vegetation.

Mixing

Phos-Chek Concentrate MUST be mixed with water before applying. Shake well before mixing and only mix with water when you plan to use it. If using a 5 gallon sprayer, mix the ENTIRE 0.75 gallons of Phos-Chek Concentrate with 4 ¼ gallons of water to make 5 gallons of usable product. If using a smaller sprayer for application, mix 1 part Phos-Chek Concentrate with 5.5 parts water.

Spraying

Before spraying an area, clear away as much brush and deadwood as possible. Phos-Chek should always be used in combination with recommended Firewise guidelines for establishing defensible space around a structure.

Aim the spray nozzle toward the target area and begin spraying. Spray the area thoroughly in accordance with the recommended guidelines for vegetation type and height (see back panel and below for details).

Vegetation should be dripping wet with Phos-Chek and all dead ground fuel such as leaves, bark, needles, and twigs should be saturated down to mineral soil. **Phos-Chek cannot be over-applied.**

Please note that when Phos-Chek is applied at high concentrations, leaf burn and drop may occur. This is a temporary effect. Because Phos-Chek acts as a fertilizer, new plant growth should soon reappear.

When your spray tank is empty, simply refill and continue spraying until the entire perimeter around your home is treated. When the perimeter is complete, spray the remaining retardant onto less protected areas and flush the sprayer with water. It is not recommended to leave retardant in the sprayer.

Please note that when Phos-Chek is first poured into your home garden sprayer, it will appear as a pale green liquid. Following application, Phos-Chek will dry clear and may leave behind a white salty residue on the vegetation. This residue is the active ingredient in Phos-Chek and should not be cleaned or removed.

Areas to Spray

Spray Phos-Chek on wood and vegetation around the entire perimeter of your home, including your garage(s), other outbuildings, garden areas, and all areas of your property that you wish to protect from wildfire.

When spraying, apply Phos-Chek to flammable areas, such as large slash piles, downed wood, fallen leaves, needles, and areas of thick, dead plant material. **Avoid leaving fuel untreated, which can allow the fire to escape.**

For the highest level of protection, we recommend individually treating any other fuel sources within the fire perimeter and close to your home so as to prevent the unwanted spread of wildfire due to embers.

Areas to Avoid Spraying

It is NOT recommended to spray Phos-Chek directly onto houses and other structures. While Phos-Chek is effective on any cellulose material, including wood fences, decks, and shingle roofs, it is not effective on vinyl siding, composite decks, or other inorganic building materials. And so the best defense is a treated perimeter surrounding your entire property.

Avoid spraying Phos-Chek onto landscaped areas, as this can over-fertilize plants, causing leaf burn and drop.

Please note that while Phos-Chek is effective on wooden fences, it may be necessary to coordinate with neighbors before spraying any shared boundary.

Width of Area to Spray

Because the type of fuel, the height of the fuel, its volume, the wind speed and its direction, and the slope of your terrain can all determine how WIDE of an area you spray, we recommend spraying a width that is at least 2 times the height of the fuel being treated.

For Example

6 ft. tall brush -- Spray a 12 ft. wide perimeter
12 in. tall grass -- Spray a 24 in. wide perimeter.

For tall trees, spray a perimeter that is 20 ft. wide around the tree, covering all ground cover, pine needles, branches, and dead plant material. We also recommend spraying the first 10 vertical ft. of the tree, covering all ladder fuels such as branch and needles that will allow the fire to climb.

Clean Up

Thoroughly clean your sprayer when finished. To do so, thoroughly rinse your tank with water and empty it. Then fill the tank half full with water and spray the water out through the hose and nozzle. Be careful not to wash away any Phos-Chek from treated areas.

When to Respray

Phos-Chek is a long-term fire retardant and will remain effective as long as the weather remains dry. However, exposure to heavy water spray from hoses and garden sprinklers, and to substantial rain of ¼ inch or more, will wash away Phos-Chek. In these situations, you will need to respray the perimeter, or the specific area(s) affected by rain or heavy water spray, to ensure your home remains protected from wildfire.

Spills & Leaks

In case of spill or leak, contain large spills and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material. Flush residual spill area with water.

Storage

Store with lid tightly closed in a dry area. Phos-Chek

Concentrate can be stored indefinitely as an unmixed concentrate, or if it has been mixed with the proper ratio of water as stated in the Mixing guidelines. Phos-Chek Concentrate will not keep if mixed with an incorrect ratio of water, or if water leaks into the container during storage. Phos-Chek Concentrate will not freeze.

An empty container will contain product residue. Please observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited. Any reuse must be in consideration of the data provided in the Material Safety Data Sheet, which can be obtained by contacting ICL Performance Products.

First Aid

THERE ARE NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

If on Eyes or Skin: Immediate first aid is not likely required. However, Phos-Chek can be removed with water. In case of accidental exposure, rinse eyes and skin thoroughly with water. Wash heavily contaminated clothing before reuse.

If Inhaled: Immediate first aid is not likely required. If symptoms occur, move to fresh air.

If Swallowed: Immediate first aid is not likely required. A physician or Poison Control Center can be contacted for advice.

WARNINGS

- Phos-Chek may cause leaf burn. Do not apply Phos-Chek to GREEN GROWING vegetation unless a wildfire is imminent.
- Avoid spraying water on treated areas. Doing so will wash away the retardant, decrease its effectiveness, and require the re-application of Phos-Chek.