



PHOS-CHEK® LC95 (LC95A-R, LC95A-F, LC95W) Long-Term Fire Retardant

Low/Medium Viscosity Liquid Concentrate



Description

Phos-Chek LC95 fire retardants are concentrated liquids that mix readily with water by recirculation, agitation or with mechanical or electronic Phos-Chek liquid proportioning systems. Phos-Chek LC95 fire retardant solutions are the only liquid concentrate (LC) ammonium polyphosphate retardants that offer both the ease of mixing and handling of a liquid and the aerial drop advantages of a gum-thickened retardant. The elastic nature of the thickener in Phos-Chek retardants reduces drift, dispersion and evaporation and facilitates increased fuel coverage, wrap around and penetration through canopy and ladder fuels to ground vegetation. Recovery can exceed 90%.

Phos-Chek LC95 is available in red iron oxide (R), fugitive (F) color, and uncolored (W). The fugitive color maintains visibility during application, but slowly fades after exposure to sunlight. LC95A-R is available as low viscosity or medium viscosity. Medium viscosity is ideal for higher altitude drops or where higher coverage levels are desired.

Uses

Phos-Chek LC95 fire retardants are qualified by the USDA Forest Service under specification 5100-304c for use in fixed-wing air tankers and helicopters with buckets and ground engines. LC95 is ideal for use in multi-engine, fixed-wing air tankers and single-engine air-tankers (SEATS). The concentrate is delivered to the using location as a low viscosity liquid and is stored in the concentrate form. It is diluted and mixed with water as it is transferred to the delivery system. LC95A-R and LC95A-F are colored to provide effective aerial application. LC95W is uncolored for use in ground application.

Phos-Chek fire retardants are used for wildland fire control in forest, brush or grassland. Functionally, Phos-Chek retardants react with and alter the thermal decomposition of wildland fuels so that they do not support flaming or glowing combustion. This deprives the fire of fuel, reducing fire intensity and the rate of flame spread. They are useful as well in prescribed burning. When applied at low application rates, fire intensity is dramatically decreased while slow burning is allowed.



Packaging

PHOS-CHEK LC95 is available in bulk trucks, 260 gal. totes, 30 and 55 gal. drums and 5 gal. pails. Special package sizes available.

Product Characteristics	
Color	Red (R), Fugitive (F), Uncolored (W)
Mix Ratio	5.5 gal. of water/gal. concentrate
Yield	1054 gal./ton of concentrate 4398 liters/metric ton of concentrate
Concentrate Density	12.29 lbs./gal. 1,476 kg/liter
Solution Density	8.97 lbs./gal. of mixed retardant 1.077 kg./liter
Viscosity	100-400 centipoise (cP)
Refractometer	12.75-14.50



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Always use the right tool for the job

Application	Long-Term Retardant	Gel	Class A Foam	Water
Indirect Attack	✓✓✓✓	✓✓	✓	
Direct/Parallel Attack	✓✓✓✓	✓✓✓	✓✓	✓
Interior Structure Attack		✓✓	✓✓✓✓	✓
Structure Protection-Indirect Application	✓✓✓✓	✓✓✓	✓✓	✓
Structure Protection-Direct Application		✓✓✓✓	✓✓✓	✓
Mop Up	✓✓	✓✓	✓✓✓✓	✓
Prescribed Burn Control	✓✓✓✓	✓✓✓	✓✓	✓

✓✓✓✓ = Superior Effectiveness ✓✓✓ = Excellent Effectiveness ✓✓ = Good Effectiveness ✓ = Baseline Effectiveness

Handling Precautions

- For detailed safety information, please refer to the MSDS.
- Minimally irritating to eyes; non-irritating to skin.
- **If in eyes:** Flush with plenty of water.
- **Precautionary Measures:** Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary contact and removal of the material from the eyes, skin and clothing.
- **Eye Protection:** As a good industrial practice, the use of chemical goggles is recommended. Eye flushing equipment should also be available.
- **Skin Protection:** As a good industrial practice, wear protective gloves to minimize skin contact. Wash hands and contaminated skin after handling.
- **Respiratory Protection:** Wear dust mask if dusty conditions exist. Avoid breathing vapor or mist.

For more information, contact any of our worldwide ICL Fire Safety offices.

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06-2014-1



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