

PHOS-CHEK® LC95

LONG-TERM FIRE RETARDANT
LOW/MEDIUM VISCOSITY
LIQUID CONCENTRATE
(LC95A-R, LC95A-FX, LC95W)



APPLICATIONS

PHOS-CHEK® LC95A-R fire retardants are qualified by the USDA Forest Service under specification 5100-304c for use in fixed-wing air tankers, helicopters with buckets and ground engines. LC95A-R is ideal for use in multi-engine, fixed-wing air tankers and single-engine air-tankers. The concentrate is delivered to the using location as a low or medium 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-Fx are colored to provide effective aerial application. LC95A-Fx provides ultra-high visibility when dropped. Both retardants fade after exposure to sunlight. Uncolored PHOS-CHEK LC95W is ideal for ground application where color is not required or is undesirable.

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. LC95 fire retardant is also useful for prescribed burns. When applied at low application rates, fire intensity is dramatically decreased while slow burning is allowed.



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 and variants 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) 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.



LC95

APPLICATIONS

TABLE	RETARDANT	GEL	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

PRODUCT CHARACTERISTICS

Color/Odor	Red (R), Fugitive (F), Uncolored (W)
Mix Ratio	5.5 gal. of water/gal. concentrate
Yield	1054 gal./ton of concentrate, 4398 litres/metric ton of concentrate
Concentrate Density	12.29 lbs./gal., 1,476 kg./litre
Solution Density	8.97 lbs./gal. of mixed retardant, 1.077 kg./litre
Viscosity	100 – 400 centipoise (cP)
Refractive Index	12.75 – 14.50



LC95

PACKAGING

ORDERING INFORMATION	Shipping Weight		Catalog #
LC95	lb.*	kg.*	Part #
5 gallon pail (20 litres), PHOS-CHEK LC95A-R Retardant	61	28	10003939
55 gallon drum (200 litres), PHOS-CHEK LC95A-R Retardant	677	307	10002792
260 gallon tote (984 litres), PHOS-CHEK LC95A-R Retardant	3203	1453	10003222
Bulk, PHOS-CHEK LC95A-R Retardant	—	—	10001554
5 gallon pail (20 litres), PHOS-CHEK LC95A-Fx Retardant	61	28	10004605
55 gallon drum (200 litres), PHOS-CHEK LC95A-Fx Retardant	672	305	10004842
260 gallon tote (984 litres), PHOS-CHEK LC95A-Fx Retardant	3177	1441	10004595
Bulk, PHOS-CHEK LC95A-Fx Retardant	—	—	10004642
5 gallon pail (20 litres), PHOS-CHEK LC95W Retardant	61	28	10002983
55 gallon drum (200 litres), PHOS-CHEK LC95W Retardant	677	307	10004780
260 gallon tote (984 litres), PHOS-CHEK LC95W Retardant	3200	1451	10003107
Bulk, PHOS-CHEK LC95W Retardant	—	—	10002883

HANDLING PRECAUTIONS

For detailed safety information, please refer to the SDS.

Minimally irritating to the eyes, non-irritating to skin.

- **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 complete SDS, visit www.phos-chek.com

*Approximate shipping weight

*Contact your local authorized PHOS-CHEK distributor or factory sales representative for additional details. <https://phoschek.com/contact/>



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FOR MORE INFORMATION

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