

PHOS-CHEK® LCE20-Fx



PRODUCT HIGHLIGHTS

- **USDA Forest Service 5100-304d certification**
- **100% phosphate product**
- **Low environmental footprint**
- **Low toxicity to fish**
- **Improved product stability**
- **Easier Handling**
- **Low-viscosity**
- **Fugitive colored**
- **Third-generation product**
- **Reduced disposal costs**
- **Increased product safety**

DESCRIPTION

PHOS-CHEK® LCE20-Fx is a next-generation fire retardant combining high performance with environmental friendliness. PHOS-CHEK LCE20-Fx combines the ease of mixing and handling of a liquid with the aerial drop advantages of a gum-thickened retardant. The elastic nature of the thickener in PHOS-CHEK LCE20-Fx reduces drift, dispersion and evaporation, while increasing coverage, wrap around, and canopy and ladder fuel penetration to effectively target ground vegetation.

An innovative, 100% phosphate product, PHOS-CHEK LCE20-Fx fire retardant utilizes an environmentally-friendly formula to offer improved performance, product safety, and enhanced stability, resulting in easier handling. The new formula reduces environmental impact – lowering overall toxicity and reducing disposal costs.

PHOS-CHEK LCE20-Fx is a ultra high visibility Fugitive (Fx)-colored concentrate. The fugitive color maintains visibility during application, but slowly fades after exposure to sunlight. LCE20-Fx is a low-viscosity product, offering improved drop characteristics from fixed-wing air tankers.



APPLICATIONS

PHOS-CHEK fire retardants are used for wildland fire control in forest, brush or grassland. Once applied, PHOS-CHEK LCE20-Fx reacts with and alters the thermal decomposition mechanism of wildland fuels, rendering them nonflammable. This deprives the fire of fuel, reducing fire intensity and the rate of flame spread. PHOS-CHEK LCE20-Fx fire retardant is also a useful tool for prescribed burns and fire breaks. When applied at lower concentrations, fire intensity can be dramatically reduced, while only slow and controlled burning remains supported.

PHOS-CHEK LCE20-Fx fire retardant is qualified by the USDA Forest Service under the recently updated specification for Long Term Retardant, Wildland Firefighting: 5100-304d (published January 7, 2020), for use in fixed-wing and single-engine air tankers, helicopter buckets, and ground engines. The concentrate is delivered to the application site as a low-viscosity liquid and is stored in concentrate form. During application, it is diluted and mixed with water in-line as it is transferred to the delivery system. Highly effective with aerial application, LCE20-Fx provides ultra-high visibility when dropped; yet is designed to fade with exposure to sunlight once applied.

PRODUCT CHARACTERISTICS

Color	Ultra High Visibility Fugitive (Fx)
Mix Ratio	5.2:1 water/concentrate
Yield	1113 gal/ton of concentrate — 4644 liters/metric ton of concentrate
Concentrate Density	11.13 lb/gal — 1.334 kg/liter
Solution Density- Mixed Retardant	8.87 lb/gal — 1.063 kg/liter
Viscosity	150 – 400 centipoise (cP)
Refractive Index	9.75 – 12.0

PHOS-CHEK® LCE20-Fx

APPLICATION	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

HANDLING PRECAUTIONS

- FOR DETAILED SAFETY INFORMATION, please refer to the SDS.
- Non-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 with good industrial practices, the use of chemical goggles is recommended. Eye flushing equipment should also be available.
- **Skin Protection:** As with good industrial practices, protective gloves should be worn to minimize skin contact. Wash hands and contaminated skin after handling.
- **Respiratory Protection:** Avoid breathing vapor or mist.
- For detailed safety information, please refer to the SDS. www.phos-chek.com

PACKAGING

ORDERING INFORMATION	Shipping Weight		Catalog #
	lb.	kg.	
PHOS-CHEK LCE20-Fx			
5 Gallon Pail (20 litres)	56	25	10004605
55 Gallon Drum (200 litres)	612	278	10004842
260 Gallon Tote (984 litres)	2894	1313	10004595
Bulk Packaging*	—	—	10004642

*Contact your local authorized distributor or factory sales representative for additional details. <https://perimeter-solutions.com>



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