

## PHOS-CHEK<sup>®</sup> 259 Fire Retardants

### Low Viscosity Powder Concentrate

#### Uses:



PHOS-CHEK 259 Fire Retardants are qualified by the USDA Forest Service for use in all types of delivery systems, i.e., fixed wing air tankers, helicopters with fixed tanks or buckets, and ground engines. 259 is especially formulated to meet stringent magnesium corrosion requirements and is, consequently, **the ONLY retardant qualified for use in helicopters equipped with fixed tanks.**

PHOS-CHEK Fire Retardants are used for wildland fire control in forest, brush or grassland. Functionally, PHOS-CHEK Retardants react with and alter the 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 in prescribed burning. When applied at low application rates, fire intensity can be dramatically decreased while slow burning continues.

#### Description:

PHOS-CHEK 259 Fire Retardants are highly soluble powders that mix readily with water by recirculation, agitation or PHOS-CHEK eductor-mixer system. 259 is available in a true fugitive (F) color maintaining visibility during application, but fades to an earth tone after exposure to sunlight.

The fire retardants solution is gum-thickened to a low viscosity to prove highly effective and accurate aerial drops. The elastic nature of the thickener in PHOS-CHEK 259 Fire Retardants facilitates increased fuel coverage, wrap around and penetration through canopy and ladder fuels to ground vegetation. PHOS-CHEK 259 exhibits extremely low corrosion in most metals, including magnesium.

#### Typical Analysis:

Color:	Fugitive (259-F)
Mix Ratio:	1.14 lbs per US gallon of water <i>0.137 kg per liter</i>
Yield:	1869 US gallons per ton of concentrate <i>7800 liters per 1000 kilograms</i> 0.93 US gallons per pound of concentrate <i>7.80 liters per kilograms</i>
Solution Density:	8.90 lbs per US gallon <i>1.074 kilograms per liter</i>
Viscosity:	75-250 centipoise (cP)

#### Packaging:

PHOS-CHEK 259 is available in bulk, 2000 lb. Phos-Bin containers, 2000 lb. bulk bags, 25 kg bags and 50 lb. pails. Special package sizes available.



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### Handling

FOR DETAILED SAFETY INFORMATION PLEASE REFER TO THE MSDS.

### Precautions:

DRY-POWDER MAY CAUSE IRRITATION TO EYES; SLIGHTLY IRRITATION TO SKIN.

PRECAUTIONARY MEASURE AND FIRST-AID HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY CONTACT AND INHALATION OF DUST AND REMOVAL OF THE MATERIAL FROM THE EYES, SKIN AND CLOTHING.

**EYE PROTECTION:** When using in windy conditions where there is a significant potential for eye contact with the dry powder concentrate, the use of chemical goggles is recommended. Eye flushing equipment should also be available.

**SKIN PROTECTION:** Wear protective gloves to minimize skin contact. Wash hands and contaminated skin after handling.

**RESPIRATORY PROTECTION:** Wear dust mask if dusty conditions exist.

**IF IN EYES:** Flush with plenty of water.

Protected storage is recommended for the product if it is to be warehoused for an extended period. Keep the product dry and repair any damage to the container immediately.

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For more information, contact any of our worldwide wildfire offices or visit us as [www.phoschek.com](http://www.phoschek.com):

### United States

ICL Performance Products LP  
810 E. Main St.  
Ontario, CA 91761  
Tel (800) 682-3626  
(909) 983-0772  
24 Hrs (909) 946-7371  
Fax (909) 984-4770

### Canada

ICL Performance Products  
Canada LTD  
3060 Airport Road  
Kamloops, BC  
Canada, V2B 7X2  
Tel (800) 665-2535  
(250) 554-3530  
Fax (250) 554-7788

### Europe

Biogema  
415, rue Armand-Pole  
d'Activities  
13852 Aix-en-Provence Cedex 3  
France  
Tel (0) 4 42 24 45 08  
Fax (0) 4 42 24 29 98

### Australia

Phoz-Chem Pty Ltd.  
P.O. Box 2034  
Templestowe Hts. Vic 3107  
Australia  
Tel 61 3 9848 1111  
Fax 61 3 9848 2711