



### APPLICATIONS:

Fire Defender G-48 antifreeze was formulated to be used in any environment where the potential for freezing conditions exist.

When used undiluted, Fire Defender G-48 protects against freeze damage failure and ensures free flow in wet fire sprinkler systems, including CPVC.

### DIRECTIONS FOR USE:

- 1.) Evacuate all water from system and drain drops according to NFPA requirements.
- 2.) Fire Defender G-48 should be tested prior to introduction into the system.
- 3.) Do not dilute or add concentrate to Fire Defender G-48.
- 4.) After filling the system, follow NFPA guidelines for testing the antifreeze. Fluid samples should be tested from a minimum of a high point and low point, and should be comparable to both each other and to the sample of the fluid tested prior to introduction into the system.
- 5.) NFPA requires a tag to be affixed to the riser indicating the date tested or replaced, the type and concentration by volume of fluid used, system capacity (in volume), contractor name and license number, and a statement indicating if the entire system was drained and replaced with antifreeze.

### CONTAINER SIZE:

- 5 - Gallon Sealed Bucket
- 55 - Gallon Drum
- 275 or 330 - Gallon Totes

Product Code: FDG4800

**DO NOT DILUTE:** When used undiluted, Fire Defender G-48 protects against freeze damage failure and ensures free flow in all wet fire sprinkler systems



Pre-Mixed Antifreeze For Wet Fire Sprinkler Systems

**Non-Toxic & 100% Biodegradable**  
**Suitable For CPVC and Metal Pipe Systems**  
**48% Glycerin Solution Factory Pre-Mixed to NFPA Guidelines**

### SYSTEM PROTECTION:

% of Fire Defender G-48	Freeze Point	Flow Point	Burst Point	Specific Gravity @77°F / 25°C
100	-15°F	-25°F	-50°F	1.137

Freeze Point is the temperature where the first ice crystal forms in the fluid. Flow Point is the temperature where the fluid will contain ice crystals but still flow. Burst Point is the temperature where the fluid is solid, expanding and bursting the vessel.

### SYSTEM REQUIREMENTS, LIMITATIONS & CAUTIONS

All fire protection sprinkler systems that use Fire Defender G-48 should conform to local, state and NFPA requirements. The use of antifreeze within these systems should also conform to NFPA requirements.

Use of antifreeze solutions should also be in conformance with any state or local health codes. Please contact your local health authorities if you have any questions concerning the codes in your area.

The chemical ingredients in Fire Defender G-48 can break down over time. NFPA 25 requires that the freezing point of the system should be tested at least once a year. Periodic testing of systems is critical to maintaining the proper concentration and freeze point of the fluid. Leaks, pressure surges, and temperature changes to the system can cause antifreeze to flow out of the system or water to flow into the system changing the freeze temperature.

When using glycerin in metallic pipe, be sure pipe connections are airtight. The molecular structure of glycerin will allow the product to seep out of loose connections before water, reducing glycerin concentration levels, and thus, lowering freeze protection.

Fire Defender is Generally Regarded as Safe (GRAS) by The FDA. Standard industrial hygiene practices should be adhered to.



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