

Aquagreen XT™

Fire Extinguishing Agent



Effective: January 2010
K-83-210

FEATURES

- **Low Temperature Use, Down to -40°F (-40°C)**
- **No Propylene or Ethylene Glycol Additives**
- **FM Approved**
- **Readily Biodegradable**

EXTINGUISHING AGENT

Aquagreen XT is a foaming wet chemical agent designed for use on Class A and Class B fires. It suppresses fire through a combination of chemical and physical mechanisms. Aquagreen XT provides rapid flame knock down and secures the hazard against the risk of re-ignition. This is accomplished by two means: First, the foam creates a vapor-suppressing barrier that spreads across a liquid fuel separating the fuel from air. Second, with over 50% water content, the foaming agent also effectively cools surfaces as the heat is given up to vaporize the water. Aquagreen XT is also naturally freeze-protected as a result of a carefully-designed blend of additives. The use of salts negates the need for glycol as a freeze-point depressant. By employing this type of freeze-point depressant system, Aquagreen XT is able to achieve an extremely low freezing point while, at the same time, maintaining fluidity at low temperatures.

Table 1: Aquagreen XT™ Physical Properties

Appearance	Pale green liquid
Specific Gravity @ 77°F (25°C)	1.28
pH	7.5
Minimum Usable Temperature	-40°F (-40°C)
Maximum Usable Temperature	200°F (93°C)
Freezing Point	below -65°F (-54°C)
Viscosity @ 70°F (21°C)	3.23 csks
Viscosity @ -20°F (-29°C)	24.48 csks
Spreading Coefficient	Minimum of 3.0 dynes/cm ²

TOXICITY

Aquagreen XT is an environmentally responsible and relatively benign fire extinguishing agent. Aquagreen XT is readily biodegradable, achieving 75% biodegradation over a 28-day period during environmental testing. Side effects upon exposure to Aquagreen XT were limited to minor skin and eye irritation.

Table 2: Aquagreen XT™ Toxicity Properties

Acute Dermal LD ₅₀ (*)	>5050 mg/kg
Acute Oral LD ₅₀	>5000 mg/kg
Acute Eye Irritation	Minimally Irritating Toxicity Category IV**
Acute Dermal	Non-Irritating Toxicity Category IV**
Biodegradability	Readily Biodegradable 75% in 28 days

PERFORMANCE

Aquagreen XT has undergone rigorous fire and flow testing to ensure that it will perform throughout its operating range of -40° to 200°F (-40° to 93°C). Fire tests include both direct and indirect agent application to a pan fire that was also subjected to a diesel spray fire. The testing closely followed the Australian Standard AS 5062-2006 *Fire Protection for Mobile and Transportable Equipment*. The tests were completed at both ambient and low temperatures, fully extinguishing the test fires and preventing re-flash from ignited diesel spray.

APPROVALS AND USE

Aquagreen XT is FM-approved for use as a primary or secondary extinguishing and cooling agent in the Kidde Sentinel™ System. It is stored in steel containers and is pressurized with propelling nitrogen. Recharge agent is sold ready to use; no further dilution or mixing is necessary.

STORAGE

The recommended storage temperature range is 60° to 150°F (16° to 66°C). Aquagreen XT should be stored in its original shipping containers or system cylinders designed for its use.

Sentinel and Aquagreen XT are registered trademarks of Kidde Fire Systems.
*See MSDS for further details.

**Toxicity Category IV: Minimal effects clearing in less than 24 hours.
No "positive" effects at 24 hours.

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If you need more information on this product, or if you have a particular question, contact KIDDE-FENWAL, INC., Ashland, MA 01721.

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