

Context Plus 227 is a tradename of HFC-227ea, Heptafluoropropane. Context Plus 227 is an effective fire extinguishing agent that can be used on many types of fires ranging from sensitive electrical equipment to industrial applications using flammable liquids. Context Plus 227 is ideal for applications where clean-up of other medium presents a problem, where an electrically non-conductive medium is needed and where people compatibility is an overriding factor. When environmental impact becomes a consideration, Context Plus 227 is particularly useful. It has Zero ozone-depleting potential, low global warming potential and short atmospheric lifetime. These characteristics make it suitable not only for new installations using Context Plus's total flooding system, but also for Halon 1301 replacement applications. Context Plus 227 is an odorless, colorless liquefied compressed gas. It is stored as a liquid and dispensed into the hazard as a colorless, electrically non-conductive vapor that is clear and does not obscure physical vision. It leaves no residue and has acceptable toxicity for use in occupied spaces at design concentration. Context Plus 227 extinguishes a fire by a combination of chemical and physical mechanisms. Context Plus 227 does not displace and therefore is safe for use in occupied spaces without fear of oxygen deprivation.

Chemical Name	Heptafluoropropane (CF <sub>3</sub> CHF <sub>2</sub> CF <sub>3</sub> )
General	Colorless, Odorless Liquefied Gas
Molecular Weight	170.03
Boiling Point	-16.4°C/2.48°F
Freezing Point	-131°C/-203.8°F
Vapor Pressure @ 21°C/70°F	58.8 psia
Critical Temperature	101.7°C/215.1°F
Critical Pressure (psia)	422.3 psia
Vapor Density (AIR=1)	6.04
Water Reactive	No
Specific Gravity (H <sub>2</sub> O=1)	1.46
Percent Volatile (by volume)	n/a
Evaporation Rate (Butyl acetate=1)	n/a
Viscosity @ 20°C/68°F	n/a
Water Solubility (V/V @ 20°C/68°F)	260mg/L
Ozone Depletion Potential	0
Estimated Atmospheric Lifetime (years)	31-42

- Context Plus 227 is **UL listed** (GARZ2.EX16152) and fully complies with the standards of ASTM D6064 and NFPA 2001 and has achieved a minimum purity of 99.95 percent and less than 10 ppm of moisture. It has less than 1 ppm acidity as HF. The non-volatile residue is less than 0.05g/100ml.

## Context Plus Limited

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