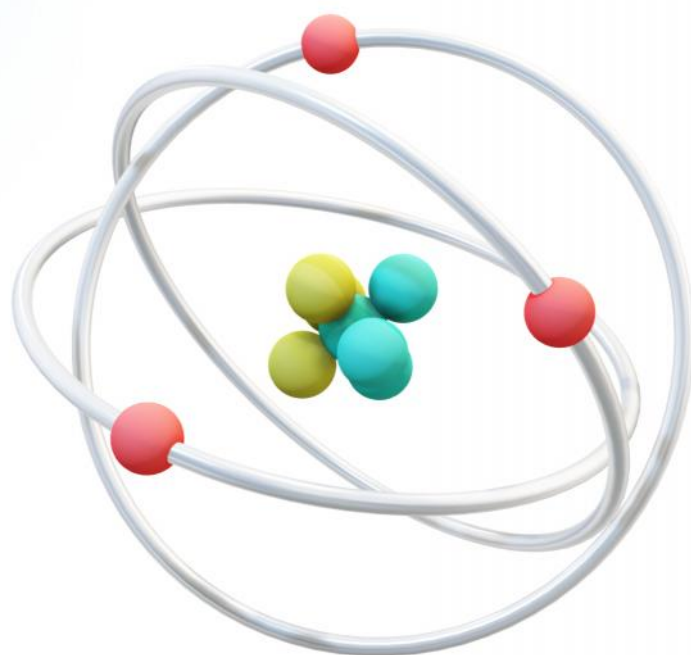


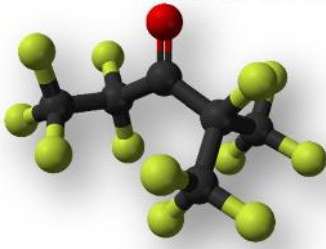
AutoFireX[®] FK5-1-12

Clean Fire Suppression Agent



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Clean Fire Suppression Agent



Introducing one of the most sustainable and environment friendly Fire suppression clean agent specially designed and developed for protecting your critical assets and special hazards.

AutoFireX[®]FK5-1-12, besides being an effective Halon replacement alternate offers a unique combination of large margin of safety, very low environmental impact and an excellent extinguishing performance making it the most appropriate clean and green fire suppression agent for use in Fire Suppression systems, Total Flood systems and Fire Extinguishers.

AutoFireX[®]FK-5-1-12, is a fluorinated ketone which is also recognised under the systematic name 1,1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)-3-pentanone.

KEY FEATURES:

-) UL approved and listed as UL recognised Component under EX
-) Zero ODP - Ozone depleting potential
-) Low Global Warming impact -GWP =1
-) Very short Atmospheric lifetime on discharge – 5 days
-) Low Toxicity (No harm to humans on controlled discharge)
-) Low Design concentrations (4-6.5%)
-) Higher NOAEL level (*No Observable Adverse Effect Level* for acute toxicity)
-) Wider Safety Margins than conventional clean agents (675-150%)
-) Clean discharge -leaves no residue and easy for post fire clean up.
-) Rapid transition from Liquid to Gas enables the agent to achieve vapour extinguishing concentration in air to be dispersed as Gas (using appropriate Nozzles)
-) Faster Evaporation than water (50times) due to low heat vaporisation than water and higher vapour pressure
-) Effectively extinguishes Fires on discharge by absorbing heat and interruption of chemical chain reaction.
-) Being Liquid at room temperature can easily be stored and transported unpressurised in suitable drums/containers.
-) High Dielectric strength.



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TYPICAL PHYSICAL PROPERTIES

Ingredients (% by Wt):	1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE
C.A.S. No.	756-13-8 (>99.9 %)
Physical Form:	Liquid
General	- Colourless, low odour liquid
Evaporation Rate (BUOAC =1)	- >1
Solubility in Water	- Nil
Molecular Weight	316.04
Boiling Point	49° Celsius (120.6° F)
Freezing Point	-108° Celsius (-162.4°F)
Vapor Density (Air = 1)	- 11.6
Vapor Pressure	244 mmHg [@ 20 °C]
Specific Gravity	- 1.6
Volatile Organic Compounds (VOC)	- 1600 g/l
Ozone Depletion Potential (ODP):	0
Global Warming Potential	< 1

APPLICATIONS

AutoFireX[®]FK5-1-12 Clean Fire suppression agent is ideal for use in Streaming and Flooding Applications such as:

-) Total Flooding Systems/ Gas Suppression Systems
-) Local Flooding systems/ Linear Pneumatic Pre-Engineered Systems
-) Fire Extinguishers

Some of the most common special hazards that are protected with this agent are Server and electronic control rooms, telecommunication switch rooms, Electrical Switchgear rooms and plant control centres, critical Marine application onboard ships/vessels, Oil & Gas off shore and onshore platform applications/equipment's.



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