



# The Stat-X First Responder<sup>®</sup>



⇒ A new innovation in fire suppression



## Q. What is a Stat-X First Responder®?

The Stat-X First Responder is a new and innovative tool designed to aid in the suppression of fires and for use as a personal protection device for fire fighters in emergency egress or entrance situations.

It is physically and functionally similar to a smoke grenade with the major difference being that it delivers a highly effective aerosol fire suppression agent called Stat-X.

It offers significant fire “knockdown” and rapid suppression capabilities for enclosed spaces.



## Q. What is Stat-X?

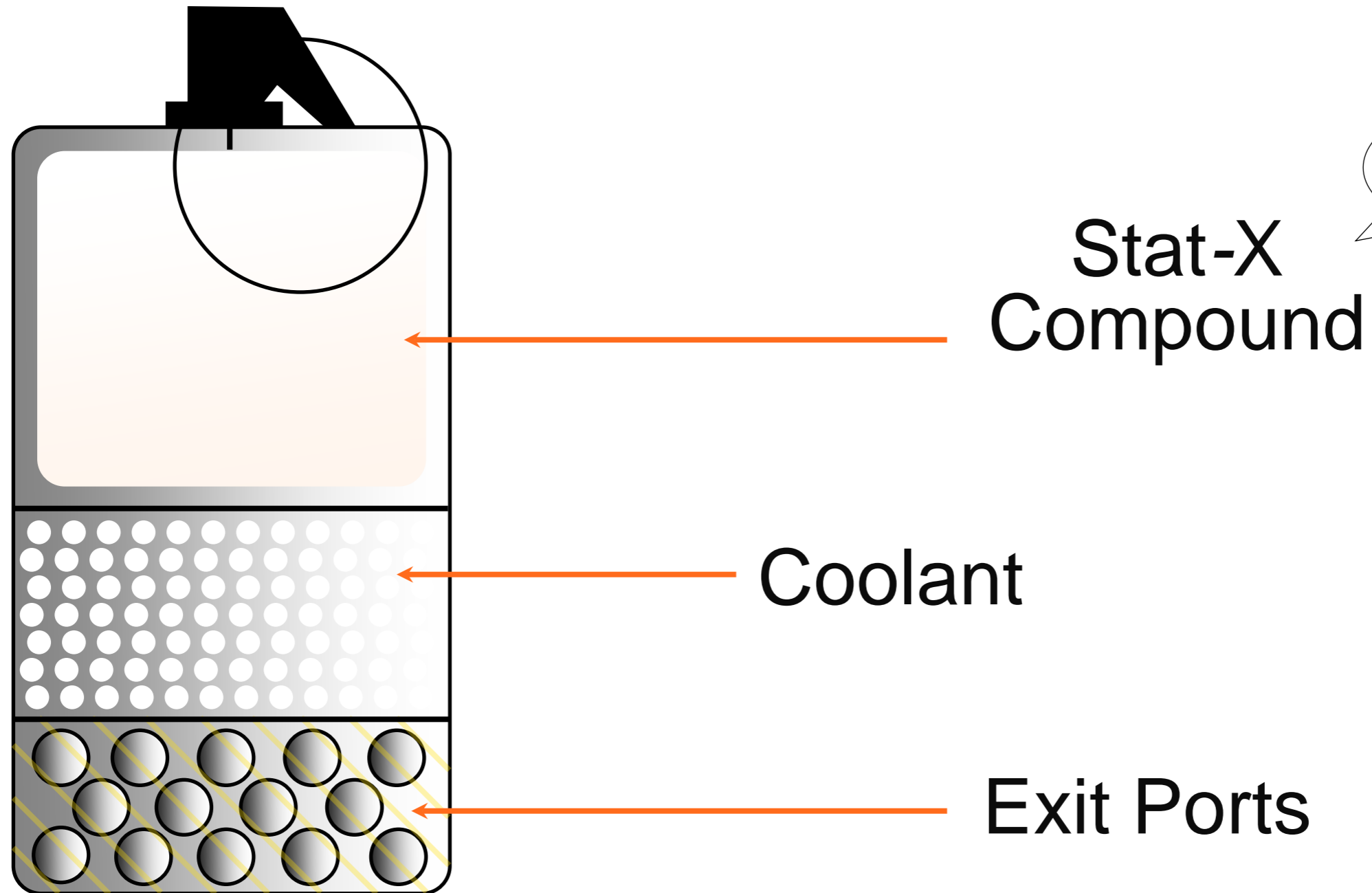
The Stat-X compound is the most effective fire extinguishing agent currently available – many times more effective than conventional agents by mass.

The Stat-X First Responder contains the same compound used in our ULC listed fixed fire extinguishing units. However, due to the tremendous variability of conditions in a firefighting situation, the purpose of the First Responder is, first and foremost, to suppress and limit the growth of the fire until other “traditional methods” are available to “put out” the fire - extinguishment would be a bonus.

**This will not replace anything you are currently using!**



Q. How does Stat-X work?

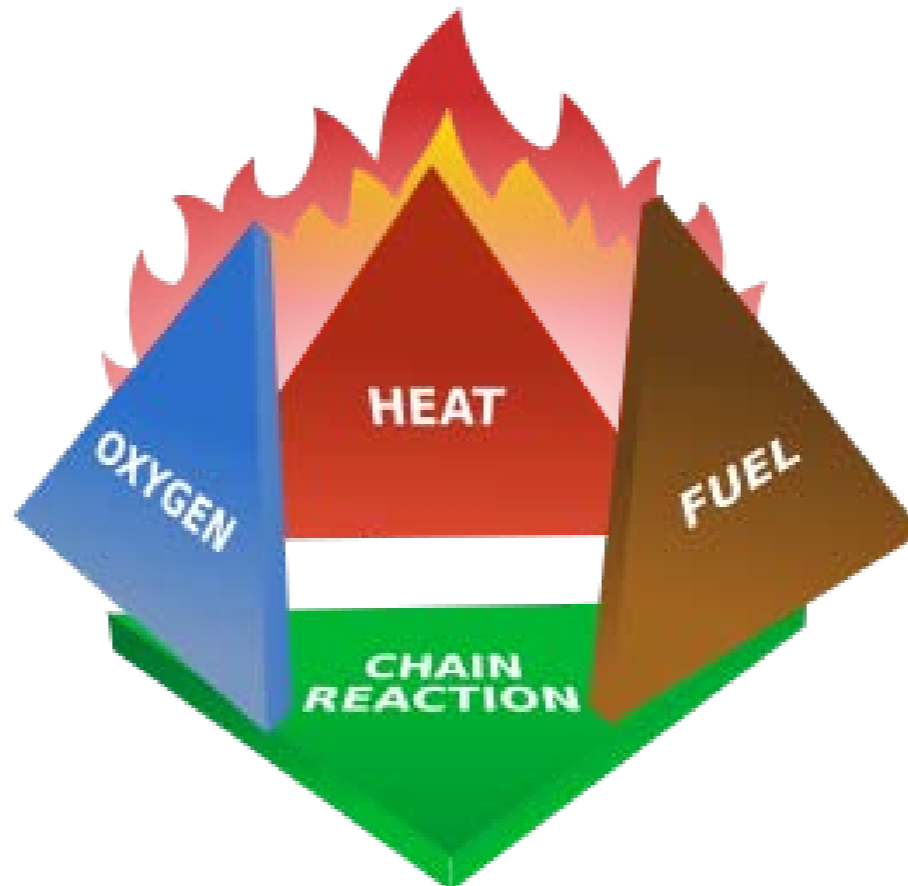


Approved by the EPA

## Q. How does Stat-X work? (cont.)



The fire triangle is a useful teaching tool, but fails to identify the 4th essential element of fire: the sustaining chemical reaction.



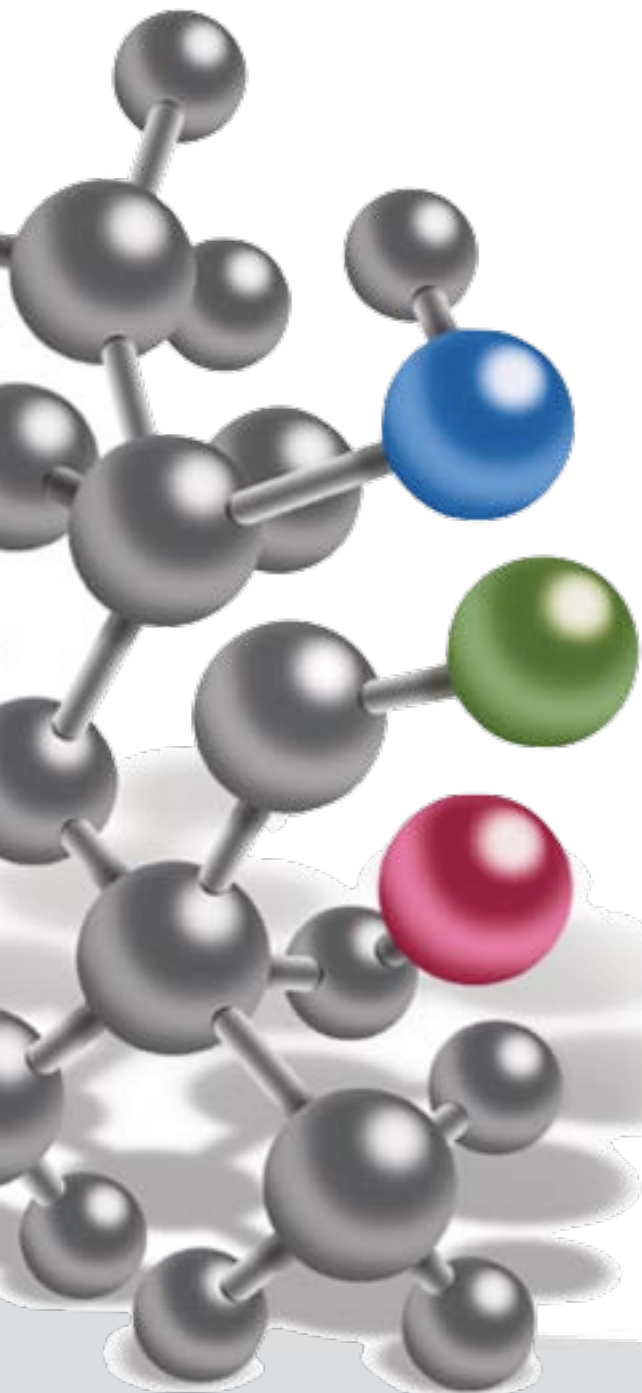
This led to development of the fire tetrahedron. Some fire suppression agents do not remove or reduce any of the 3 necessary components, but rather interfere with their chemical combination.

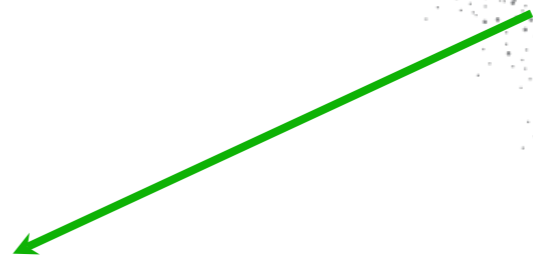
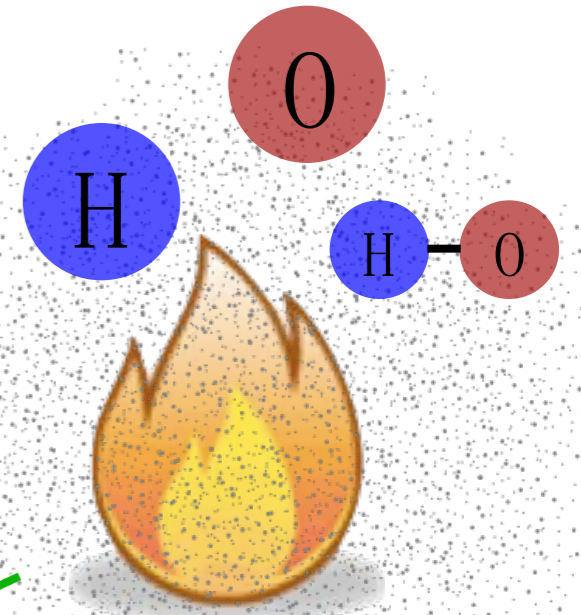
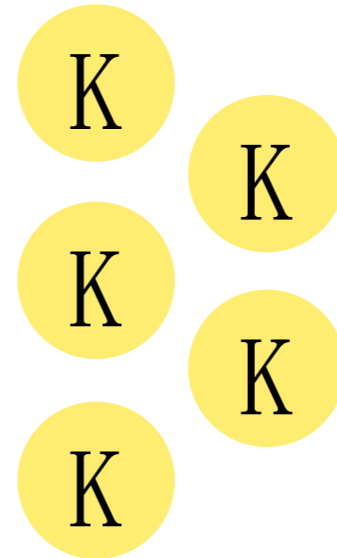
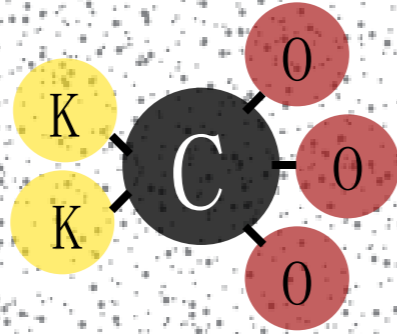
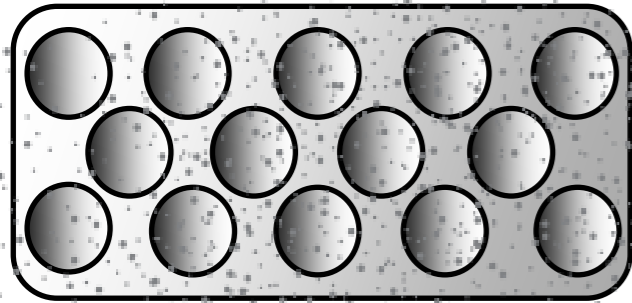
## Q. How does Stat-X work? (cont.)

“Free Radicals,” are essential to the propagation of a fire - (OH, H & O). Stat-X suppresses the fire primarily by chemical interference with these “free radicals” within the fire zone.

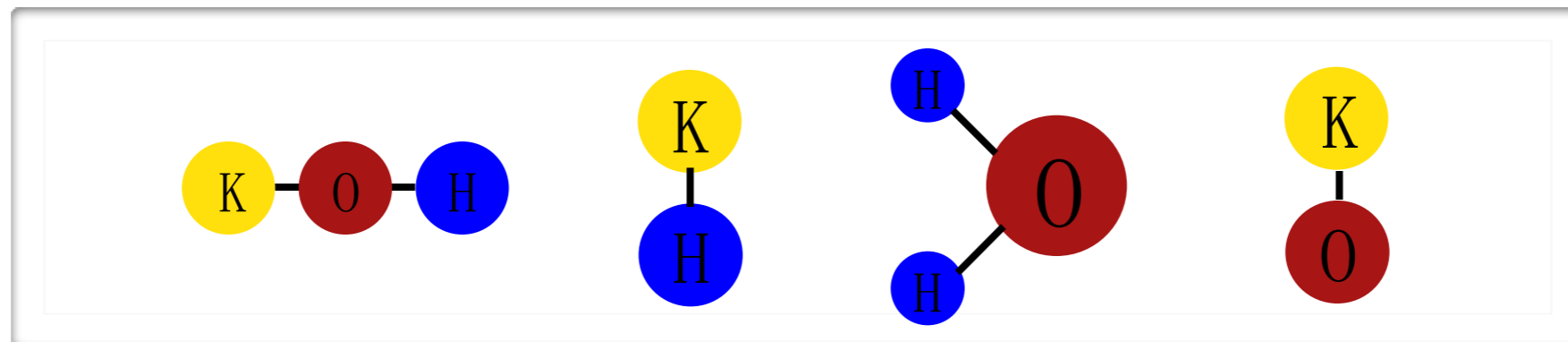
➤ Free radical – an uncharged molecule (typically highly reactive and short-lived) having an unpaired valence electron.

Potassium radicals (K) are the main active component of the Stat-X aerosol. These potassium radicals react with the radicals of the flame.





Stable Molecules = Fire Suppression





Q. Does the First Responder deplete the oxygen?

A. No, there is no oxygen depletion or reduction.

Q. Does it explode like a grenade?

A. No, the unit remains fully intact.

Q. What happens if it is exposed to a flame or I am carrying it on me in an intense fire?

A. Auto ignition = 572°F. It is highly unlikely that a firefighter could endure, for a sufficient period of time, temperatures high enough to activate the unit.







## Q. When would I use a Stat-X First Responder?

Scenario A - Firefighter arrives at the scene of an early stage fire. After assisting in getting people out and before additional resources arrive at the scene, toss Stat-X First Responders into the rooms which are involved with the fire. This will "buy time" for further rescue and for the firefighters to lay hose.

Scenario B - Firefighters are concerned about potential flashover from a fire down a hall and water isn't yet available. Toss Stat-X First Responders ahead of the firefighters to eliminate many of the contributing factors of a flashover.

Scenario C - A firefighter is trapped or can't get to a victim due to an intense area of fire. Toss a Stat-X First Responder into the flame area for immediate fire suppression.





## Applications:

- High Rise Building Fires
- Confined Space Fires
- Below Grade Fires
- Electrical Vaults
- Shipboard Fires
- Vehicle Fires
- Attic Fires
- Shipping Containers
- Before Hoses are in Place
- Rapid Entry Teams
- Rapid Temperature Drop
- Bilge Fires (activates under water)



Q. What size area can one Stat-X Responder protect?

A. Tests have shown significant suppression effects up to an 8ft × 10ft × 10ft room (approx. 800 cu. ft), however, this is subject to the class of materials involved, leakage, and other factors. More units would be required for a larger volume or a space with excessive leakage. *(class a,b,c)*

Q. How long is it effective for?

A. The aerosol has a long hang time providing extended protection – up to an hour in a confined space with no air flow. In the real world however it will escape through doors, windows, or other openings.

Q. How much does it weigh?

A. 2.4 pounds.



## In closing...

- Environmentally safe
- Does not Deplete Oxygen
- Flash-over prevention
- < Property damage
- 10+ Year Shelf-life
- Personal Protection
- Confined space
- Egress/Entrance
- Rapid Temperature Drop
- Works under water

Grants

Available:

FEMA

Fireman' s Fund

Heritage



For more information and to order  
Stat-X First Responders



1-800-514-8195

[www.rapidfireprotection.com/](http://www.rapidfireprotection.com/)



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