What is claimed is:

1. A training munition which contains a projectile that includes a pyrophoric payload contained within frangible hardware, wherein said frangible hardware breaks open ~~payload is dispersed into the environment and contacted with air~~ when said projectile impacts an impact site, thereby releasing the pyrophoric payload into the environment where said pyrophoric payload contacts air, further wherein said pyrophoric payload comprises pyrophoric powder, small pyrophoric foils, or mixtures of pyrophoric powder and small pyrophoric foils and marks the impact site by generating signatures in at least one electromagnetic radiation wavelength region selected from the group consisting of the visible region, near IR bands, mid-wave IR bands and long-wave IR bands, further wherein said projectile contains no explosive material and said pyrophoric payload further comprises activated carbon powder as an anti-clumping additive.

2. The training munition of Claim 1 wherein said pyrophoric payload comprises pyrophoric foils.

3. The training munition of Claim 1 wherein said pyrophoric payload comprises pyrophoric powder.

4. The training munition of Claim 2 wherein said pyrophoric foils are coated with organic dye compound, and said pyrophoric payload also produces smoke upon impact of said projectile with said impact site.

5. The training munition of Claim 2 wherein said pyrophoric foils are coated or intermixed with at least one organic compound that at least partially combusts or sublimes upon exposure to the heat generated by said pyrophoric payload after it is dispersed from said projectile upon impact and contacts air.

6. The training munition of Claim 3 wherein said activated carbon is present in an amount of from 2 to 20% by weight of the pyrophoric payload ~~further comprises an anti-clumping additive~~.

7. The training munition of Claim 3 wherein said pyrophoric payload further comprises at least one dye material which also produces smoke at said impact site after said pyrophoric payload is dispersed into the environment.

8. The training munition of Claim 3 wherein said pyrophoric payload comprises at least one organic compound that at least partially combusts upon exposure to the heat generated by said pyrophoric payload after it is dispersed from said projectile.

9. The training munition of Claim 1 wherein in addition to said pyrophoric payload said munition also includes at least two ~~chemilumiscent~~ chemiluminescent reaction components which mix together after the projectile is fired from a weapon and which produce visible light at the impact site after impact.

10. The training munition of Claim 1 wherein said pyrophoric payload also includes at least one dye material which produces smoke at said impact site after said pyrophoric payload is dispersed into the environment.

11. The training munition of claim 9, wherein said pyrophoric payload also includes at least one dye material which produces smoke at said impact site after said pyrophoric payload is dispersed into the environment.

12. The training munition of claim 9, wherein said at least two ~~chemilumiscent~~ chemiluminescent reaction components are held in a compartment that is separate from the pyrophoric payload, further wherein said at least two ~~chemilumiscent~~ chemiluminescent reaction components are held in said compartment separate from one another until after the projectile is fired from a weapon.

13. The training munition of claim 12, wherein said at least two ~~chemilumiscent~~ chemiluminescent reaction components are held in said compartment separate from one another until impact of the projectile with said impact site.

14. The training munition of claim 1, wherein said pyrophoric payload comprises pyrophoric ~~material~~ powder and an amount of at least one organic compound, further wherein, after impact, when the pyrophoric ~~material~~ powder heats up upon exposure to air,

at least a portion of said amount of organic compound at least partially softens, melts or burns to form a residue on a portion of the surface of the pyrophoric ~~material~~ powder.

15. The training munition of claim 1, wherein said pyrophoric payload comprises small pyrophoric foils and an amount of at least one organic compound, further wherein, after impact, when the small pyrophoric foils heat up upon exposure to air, at least a portion of said amount of organic compound at least partially softens, melts or burns to form a residue on a portion of the surface of the small pyrophoric foils.

16. The training munition of claim 1, wherein said pyrophoric payload comprises a mixture of small pyrophoric foils and pyrophoric powder and an amount of at least one organic compound, further wherein, after impact, when the small pyrophoric foils and pyrophoric powder heat up upon exposure to air, at least a portion of said amount of organic compound at least partially softens, melts or burns to form a residue on a portion of the surface of the small pyrophoric foils and pyrophoric powder.

17. A training munition which contains a projectile that includes a pyrophoric payload contained within frangible hardware, wherein said payload is dispersed into the environment and contacted with air when said projectile impacts an impact site, further wherein said pyrophoric payload comprises pyrophoric powder and from 2 to 50% by weight of activated carbon powder as an anti-clumping additive and marks the impact site by generating signatures in at least one electromagnetic radiation wavelength region selected from the group consisting of the visible region, near IR bands, mid-wave IR bands and long-wave IR bands and said projectile contains no explosive material.

18. The training munition of claim 17, wherein said pyrophoric payload comprises pyrophoric powder and from 2 to 20% by weight of activated carbon powder as the anti-clumping additive.

19. The training munition of claim 17, wherein said pyrophoric payload comprises pyrophoric powder and from 10 to 18% by weight of activated carbon powder as the anti-clumping additive.

20. A training munition which contains a projectile that includes a pyrophoric payload contained within frangible hardware, wherein said frangible hardware breaks open when said projectile impacts an impact site, thereby releasing the pyrophoric payload into the environment where said pyrophoric payload contacts air and marks the impact site by generating signatures in at least one electromagnetic radiation wavelength region selected from the group consisting of the visible region, near IR bands, mid-wave IR bands and long-wave IR bands, further wherein said pyrophoric payload comprises pyrophoric powder and from 2 to 20% by weight of activated carbon powder as an anti-clumping additive and said projectile contains no explosive material.