



Decontamination Foam

POTENTIAL MARKET APPLICATIONS

Homeland Security

Public Health

Food Safety

BENEFITS

Neutralizes adverse health effects of both chemical and biological warfare agents and toxic industrial chemicals

Extended Shelf Life

Convenient to handle and mix in the field

INTELLECTUAL PROPERTY

US Patent #7,750,199

SD# 7385

US Patent #6,566,574

SD# 6091

US Patent #6,723,890

SD# 6899

US Patent #7,125,497

SD# 7458

US Patent #7,390,432

SD# 7209

TECHNOLOGY SUMMARY

Recent attention has focused on the preparedness of emergency response teams if a terrorist event involving chemical and biological warfare ever occurred. This attention, along with the increased threat to national security, has led to the need for a readily available, easy to use product that would neutralize the adverse effects of these agents. This new technology addresses the need for a general formulation that neutralizes the effects of either chemical toxants or biological toxants. These include any chemical, substance, compound, or agent that can cause death, temporary incapacitation, or permanent harm to humans and animals.

This formulation contains solubilizing compounds, reactive compounds, and sorbent additives that allow the formulation to be pre-mixed and pre-packaged as a multi part kit system where one or more of the parts are packaged in a powered, granulated form. The solubilizing agent serves to effectively render the toxant susceptible to attack, while the reactive compound serves to attack and neutralize the toxant. The sorbent additive is use to dry out the ingredients to allow for pre-packaging.

This formulation can be delivered in the form of foam, spray, liquid, gel, fogs, or aerosols. It does not contain or produce infection, significant adverse health effects, or fatality in animals. This allows for the product to address toxants found in agriculture facilities, food processing facilities, Hazmat situations, and other non terrorism events.



TECHNOLOGY READINESS LEVEL

Sandia estimates this technology at a TRL 8. The technology has been proven to work in final form under expected conditions.

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Sandia National Laboratories

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