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SEI Certifies Chemical & Biological Terrorism Ensembles Used By Emergency Responders

McLean, VA . . . August 2007. The Safety Equipment Institute (SEI) is pleased to announce that the first SEI certifications for chemical biological terrorism suits have been issued to the following NFPA criteria: *NFPA 1994: Standard on Protective Ensembles for First Responders to CBRN Terrorism Incidents, 2007 Edition*.

This 2007 edition (2nd edition) is a complete revision of NFPA 1994-2001. The former requirements for Class 1 CBRN ensembles, for protection from chemical, biological, and radiological terrorism agents, have been incorporated into NFPA 1991, *Standard on Vapor-Protective Ensembles for Hazardous Materials Emergencies*, 2005 edition, and are now incorporated into the base requirements for all vapor-protective ensembles. NFPA 1994 no longer specifies a Class 1 ensemble, but has left the designation "Class 1" vacant.

A new Class 4 ensemble has been added to provide particulate protection for emergency responders to incidents where no chemical or biological agent is identified, but a particulate threat is present (including "white powder" incidents).

The committee developed this new standard to provide three levels of protective ensembles — Class 1, Class 2, and Class 3 ensembles — that could be selected for protection of fire and emergency services personnel based on what the incident risk analysis indicates is necessary protection for the intended operations.

The goal of this standard is to establish personal protection requirements for ensembles that would be available in quantity, pristine condition, designed for single exposure use, and easily donned and used by fire and emergency services personnel to reduce the safety risks and health risks to personnel during assessment, extrication, rescue, triage, and treatment operations at or involving chemical or biological terrorism incidents.

All independent testing for the SEI certification program of Chemical & Biological Protective Ensembles used in the fire and emergency services is conducted at SEI's contract testing laboratory, Intertek Testing Services (ITS), Cortland, NY.

SEI has issued certifications for the following models:



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----- NFPA 1994-2007 Class 2 Ensembles-----

Class 2 Ensemble is a chemical/biological terrorism incident protective ensemble to protect fire and emergency services personnel at chemical/biological terrorism incidents where it is necessary to provide sufficient vapor protection for the intended operation, where direct contact of liquid droplets is probable, and where victims are not ambulatory but symptomatic.

<u>Company Name</u>	<u>Brand Name</u>	<u>Models</u>
<u>E.I. du Pont de Nemours - DuPont Personal Protection</u>	DuPont Tychem® TK Front or Rear Entry Fully Encapsulated CBRN protective Ensemble, large view faceshield 40 mil PVC/5 mil Teflon/20 mil PVC, expanded back, exhaust valves, gas-tight PVC zipper, double-sealed seams, double storm flap, attached sock boots with boot flap. - Glove System Unlined Inner glove: Ansell Barrier #2-100 Outer Glove: Guardian #IN-35 Neoprene - Breathing System SCBA is required and must be certified as compliant to NFPA 1981 (sold separately) - Footwear Onguard Hazmax Boot #87012. Boot must be worn over the integrated bootie for compliance to NFPA 1994-2007. (sold separately)	TK612T (Front Entry) TK613T (Rear Entry)
<u>Kappler</u>	Zytron 500® (Front Entry) Level A, Fully encapsulated, gas tight ensemble consisting of: -Zytron 500® Chemical Barrier Fabric with double taped seams -FEP/PVC Visor -Glove System Outer Glove: Ansell Kevlar, model K2300 Middle Glove: Guardian Butyl model CP-25, Size XL Inner Barrier Layer: Ansell Barrier #2-100, (Size 11) - Footwear Options Onguard Hazmax Boot p/n 87012 (sold separately) Tingley HazProof Boot p/n 82330 (sold separately) - Breathing System Fully encapsulated suit, SCBA required. SCBA must be certified as compliant to NFPA 1981 (sold separately) -Pass Thru Options Draeger Pass Thru - 7D	Z5HTN C2

Lakeland Industries Inc

Lakeland
Front or Rear Entry Fully Encapsulated Suit of Green Tychem TK, 40 mil PVC/10mil Teflon lens, 48" gas-tight zipper with double Velcro storm flap, two exhaust valves, reinforced knees, and sock boot flaps

TK6648 - Front Entry
TK648W - Front Entry w/Wide View Lens

- Glove System
ONEGlove HazMat: Saint-Gobain Performance Plastics
- Breathing System
SCBA is required and must be certified as compliant to NFPA 1981 (sold separately)
- Footwear
Onguard Hazmax Boot #87012

TK658 - Rear Entry
TK658W - Rear Entry w/Wide View Lens

Lion Apparel

Tactix Brand® MT-94™
Non-Encapsulating Coverall with Hood and attached Bootie made of 9.4 oz GORE™ Chempak® Ultra Barrier Fabric

CMTM10 - Navy color garment, no reflective trim
CMTM20 - Tan color garment with

- Glove System
Inner Barrier Layer: G9492-C2 GORE™CHEMPAK® Ultra Barrier
Outer Glove: G9492-OGN JB1GU (Palm-sheep grain leather, Back-NOMEX® knit)
- Footwear
Onguard Hazmax boot p/n 87012
- Breathing System Options:

reflective trim and radio pocket
CMTM30 - Navy color garment with reflective trim and radio pocket
CMTM40 - Tan color garment, no reflective

MSA Ultra Elite MMR Air Mask with MSA MMR Facemask. NIOSH #13F-473CBRN, 13F-474CBRn, 13F-526CBRN, 13F-475CBRN, 13F-476CBRN

Scott AV3000 Facepiece with Scott NxG2, NIOSH # 13F-516CBRN, 13F-5176CBRN, 13F-518CBRN, 13F-519CBRN

Scott AV3000 Facepiece with Scott AIR-PAK. NIOSH #13F-366CBRN, 13F-76CBRN, 13F-212CBRN, 13F-96CBRN, 13F-80CBRN

Drager Panorama Nova with Drager AirBoss Evolution SCBA or Draeger AirBoss PSS 100 Plus SCBA. NIOSH #13F-515CBRN, 13F-514CBRN, 13F-513CBRN, 13F-512CBRN, 13F-380CBRN, 13F-379CBRN, 13F-378CBRN, 13F-377CBRN

----- NFPA 1994-2007 Class 2 Ensemble Elements-----

Class 2 Ensemble is a chemical/biological terrorism incident protective ensemble to protect fire and emergency services personnel at chemical/biological terrorism incidents where it is necessary to provide sufficient vapor protection for the intended operation, where direct contact of liquid droplets is probable, and where victims are not ambulatory but symptomatic.

Note: Ensemble elements shall be used only with a certified Class Three ensemble that has been tested, certified and labeled identifying the appropriate ensemble element.

Company Name	Brand Name	Models
<u>Saint-Gobain Performance Plastics, Inc.</u>	ONEGlove™ - HAZMAT Glove	22402M
		22403M
		22404M
		22405M
		22406M
		22407M
		22409M
	22410M	
	22411M	
	22412M	
22413M		
22414M		
<u>W. L. Gore and Associates, Inc.</u>	GORE™ CHEMPAK® Ultra Barrier Glove System*	G9492-C2 - Glove Liner
	- Liner: GORE™ CHEMPAK® Ultra Barrier Fabric - Overglove: NOMEX® knit back with black leather palm glove	G9492-OGN - Over Glove

(*This glove system consists of a glove liner and overglove and must be worn together at all times.)

----- NFPA 1994-2007 Class 3 Ensembles-----

Class 3 Ensemble is a chemical/biological terrorism incident protective ensemble to protect fire and emergency services personnel at chemical/biological terrorism incidents where it is necessary to provide sufficient liquid protection for the intended operation, where direct contact of liquid droplets is possible, and where victims are impaired but ambulatory.

Company Name	Brand Name	Models	
<u>Indutex S.p.A.</u>	JetGuard PLUS Rear Entry Ensemble consisting of Tessaform® RFV fabric, two-layer glove system (outer layer attached to garment), attached hood with visor and footwear	53320301	
		53320302	
		53320303	
		53320304	
		53320305	
		53320306	
		53320307	
		53320308	
		- Glove System:	
		Outer glove: ChemZiol 339, MAPA Professional (Size 10) Inner Glove: silvershield/4H, North Safety Products (Size 10) -Footwear: OnGuard Industries Hazmax EZ-Fit, p/n 87015 (sizes S-XL) -Breathing System: MSA CBRN Millennium APR Respirator p/n 10051287, 10051288 with canister p/n 10046570 (CBRN HIOSH # TC-14G-0270)	

----- NFPA 1994-2007 Class 3 Ensemble Elements-----

Class 3 Ensemble is a chemical/biological terrorism incident protective ensemble to protect fire and emergency services personnel at chemical/biological terrorism incidents where it is necessary to provide sufficient liquid protection for the intended operation, where direct contact of liquid droplets is possible, and where victims are impaired but ambulatory.

Note: Ensemble elements shall be used only with a certified Class Three ensemble that has been tested, certified and labeled identifying the appropriate ensemble element.

Company Name	Brand Name	Models	
<u>Saint-Gobain Performance Plastics, Inc</u>	ONEGlove™ - HAZMAT Glove	22402M	
		22403M	
		22404M	
		22405M	
		22406M	
		22407M	
		ONEGlov	22409M
		e™ -	22410M
		HAZMA	22411M
		T Glove	22412M
		22413M	
		22414M	
<u>W. L. Gore and Associates, Inc</u>	GORE™ CHEMPAK® Ultra Barrier Glove System* - Liner: GORE™ CHEMPAK® Ultra Barrier Fabric - Overglove: NOMEX® knit back with black leather palm glove	G9492-C2 - Glove Liner	
		G9492-OGN - Over Glove	
	GORE™ CHEMPAK® Ultra Barrier Glove System* - Liner: GORE™ CHEMPAK® Ultra Barrier Fabric with internal cotton cuff - Overglove: NOMEX® knit back with black leather palm glove	G9492-C3 - Glove Liner	
		G9492-OGN - Over Glove	
(*This glove system consists of a glove liner and overglove and must be worn together at all times)			

In addition to initial compliance testing of all protective clothing at an independent laboratory, manufacturers who participate in the SEI certification program must pass a rigorous quality assurance audit of their manufacturing facility and operate in accordance with ISO 9001. Also, all products carrying the SEI label are required to be re-certified annually. Therefore, all products must be re-tested annually at Intertek, and the manufacturing facility must continue to successfully meet all SEI quality assurance requirements during follow-up audits.

Further details on the above certified models and the most current version of the SEI **Certified Product List**, can be accessed on SEI's web site, www.SEInet.org, by anyone, anywhere in the world at any time of the day. The **Certified Product List** provides product model names and numbers, manufacturer's names, addresses, and contact numbers. A copy of the SEI **Certified Product List** may also be obtained free of charge by writing to SEI, 1307 Dolley

Madison Blvd., Suite 3A, McLean, VA 22101. Requests may also be sent by fax: 703/442-5756 or by e-mail at: info@SEInet.org.

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Certified Model – NFPA 1994 – 2007 edition