Table 3-2. Use Requirements for Personal Protective Clothing

Operations	Protective apparel				
	Shirts, pants, and aprons	Gloves	Goggles	Face shields	Booties
Mk 46 and Mk 54 Torpedoes					
Baffle removal	X	X	X		X
Fuel tank venting	X (apron only)	X	X		
Mk 48 and Mk 48 ADCAP Torpedoes					
Fuel pumping priming	X	X	X	X	X
Mk 46, Mk 48, Mk 48 ADCAP, and Mk 54 Torpedoes					
Fueling/defueling	X	X	X	X	X
Fuel pump breakdown	X	X	X		X
Afterbody breakdown (contaminated)	X	X	X		X
Washing or handling contaminated parts	X	X	X	X	X
Degreasing operations	X	X	X	X	X
Clean up minor fuel spills		X			
Clean up major fuel spills[a]	X	X	X[b]		X[c]
Retrieval operations	X	X			
Otto Fuel II liquid waste pickup[d]		X	X		X[e]
Waste sample extractions	X	X	X[b]	X[f]	X[c]

[a]Listed items recommended for use. Specific equipment utilized by hazardous materials spill cleanup team may be different.
[b]Goggles are not required to be worn under face pieces of forced air breathing systems.
[c]Boots are required for clean up of major fuel spills and waste sample extractions.
[d]Protective apparel that is equivalent in quality to apparel listed in tables 3-3 through 3-5 may be substituted for use.
[e]Boots are acceptable for contractor personnel.
[f]Full face mask with carbon cartridges may be used.

Table 3-3. Personal Protective Clothing

Clothing and equipment	Size	NSN	Part/Spec No.	Use
Shirt, disposable	M	9D 8415-01-014-5359	A-A-50390[a]	Otto Fuel II handling/cleanup
	L	9D 8415-01-014-3674	A-A-50390[a]	Otto Fuel II handling/cleanup
	XL	9D 8415-01-014-2414	A-A-50390[a]	Otto Fuel II handling/cleanup
Trousers, disposable	M	9D 8415-01-013-4839	A-A-55201[a]	Otto Fuel II handling/cleanup
	L	9D 8415-01-013-9502	A-A-55201[a]	Otto Fuel II handling/cleanup
	XL	9D 8415-01-013-9503	A-A-55201[a]	Otto Fuel II handling/cleanup
Apron, disposable	M	9D 8415-01-012-9164	A-A-55121[a]	Otto Fuel II handling/cleanup
Gloves, rubber	9	9D 8415-01-012-9294	MIL-G-87066	Otto Fuel II handling/cleanup
	10	9D 8415-00-013-7382	MIL-G-87066	Otto Fuel II handling/cleanup
	11	9D 8415-01-013-7384	MIL-G-87066	Otto Fuel II handling/cleanup
Footwear, disposable	M	9D 8430-00-591-1359	A-A-50391	Otto Fuel II handling/cleanup
	L	9D 8430-00-580-1206	A-A-50391	Otto Fuel II handling/cleanup
	XL	9D 8430-00-580-1205	A-A-50391	Otto Fuel II handling/cleanup
Goggles	—	4240-00-288-9123	ANSI 287.1	Otto Fuel II handling/cleanup
Face shield, plastic	—	9G 4240-00-542-2048	ANSI 287.1	Otto Fuel II handling/cleanup

[a]A-A-55121, A-A-50390, and A-A-55201 specify all white components. In the event that items manufactured in compliance with the specifications are not available, the color of material, fabric, snaps, ties tapes, and thread is optional, with white preferred. All other requirements of the specifications apply.

Table 3-4. Consumables for Otto Fuel II Spill Cleanup

Clothing and equipment	Size	NSN	Part/Spec No.	Use
Detergent, clear liquid	—	9Q 7930-00-282-9699	MIL-D-16791	Otto Fuel II cleanup
Towels, wiping (chemical wipes)	—	9Q 7920-00-965-1709	—	Otto Fuel II handling/cleanup
Trash can liners (plastic bags)	— —	9Q 8105-00-655-8286 9Q 8105-00-269-4662	— —	Otto Fuel II handling/cleanup
Cap, paper, disposable	—	9DL 8415-00-089-8707	—	Otto Fuel II cleanup
Rags	—	9Q 7920-00-205-1711	—	Otto Fuel II cleanup
Applicator	—	9L 6515-00-303-8250	—	Otto Fuel II cleanup
Otto Fuel II detector tube	—	1H 1355-01-054-8160	—	Otto Fuel II vapor detection
Alcohol, ethyl[a,b]	—	9G 6810-00-823-8003	A-A-51693A	Otto Fuel II cleanup
Sodium sulfide	—	9G 6750-00-200-2403	—	Otto Fuel II cleanup
Acetone[a,c]	—	9G 6810-00-184-4796	ASTM D329	Otto Fuel II cleanup
Bag, 4 mil plastic	—	9Q 8105-01-264-4571	—	—
Container, shipping Otto Fuel II	55 gal	4T 8140-01-054-6702	7263829	Shipping
Drum (without liner)	55 gal	9G 8145-01-032-9070	6783525	Shipping solid wastes
Drum, shipping & storage (DOT UN1A2)	55 gal	9Z 8110-00-030-7780	PPP-D-736	Shipping solid wastes
Drum, DOT UN6HA1	55 gal	—	—	Shipping liquid wastes
Lab sample shipping container[d]	1,000 ml	—	—	Shipping lab sample
COLIWASA	—	—	—	Collecting waste samples

[a]Store in flammable locker.

[b]Alcohol, denatured (88.1% ethyl) (9G 6810-00-205-6786) or alcohol, isopropyl (9L 6505-00-039-2578) may be substituted, if required.

[c]These items are not required to be kept on hand, they are components of NG-Killer which is used on a limited basis (section 5-16).

[d]Recommended sources:

(1) Labelmaster
5724 N. Pulaski Road
Chicago, IL 60646-6797
1-800-621-5808

(2) All-Pak, Inc.
2260 Roswell Drive
Pittsburgh, PA 15205
(412) 922-7525

Part description:

(1) 1000 ml SturdeeSeal Combination Packaging, part style HMS-33

Table 3-5. Other Required Materials for Use with Otto Fuel II

Material	Size	NSN	Part/Spec No.	Quantity	Use
Boots, rubber	5	9D 8430-00-753-5935	—	A/R[a]	Otto Fuel II cleanup
	7	9D 8430-00-753-5937	A-A-50371	A/R[a]	Otto Fuel II cleanup
	9	9D 8430-00-753-5939	A-A-50371	A/R[a]	Otto Fuel II cleanup
	11	9D 8430-00-753-5941	A-A-50371	A/R[a]	Otto Fuel II cleanup
	13	9D 8430-00-753-5943	A-A-50371	A/R[a]	Otto Fuel II cleanup
Brush, scrub, deck	—	9Q 7920-00-240-7171	—	A/R[a]	Otto Fuel II cleanup
Handle, brush, deck	—	9Q 7920-00-141-5452	—	A/R[a]	Otto Fuel II cleanup
Breathing apparatus, self-contained (positive)	—	1H 4240-01-251-940	481223	2	Otto Fuel II cleanup
Air bottle, cylinder (spare)	—	1H 1045-01-111-8264	473583	4	Otto Fuel II cleanup
HCN detector tube	—	1H 6665-00-769-0959	—	1	HCN vapor detection
Draeger pump	—	1H 6665-00-710-7815	—	1	HCN vapor detection
Otto Fuel II detector tube	—	1H 1355-01-054-8160	—	1	Otto Fuel II vapor detection
Otto Fuel II Vapor Detector Mk 15 Mod 0	—	7H 1355-01-029-1284	—	1	Otto Fuel II vapor detection
Alcohol, ethyl[b,c]	—	9G 6810-00-823-8003	A-A-51693A	1 gal	Otto Fuel II cleanup
Sodium sulfide	—	9G 6750-00-200-2403	—	15 lb	Otto Fuel II cleanup
Acetone[b,d]	—	9G 6810-00-184-4796	ASTM D329	10 gal	Otto Fuel II cleanup
Bag, 4 mil plastic	—	9Q 8105-01-264-4571	—	—	—
Container, shipping Otto Fuel II	55 gal	4T 8140-01-054-6702	7263829	—	Shipping
Drum (without liner)	55 gal	9G 8145-01-032-9070	6783525	—	Shipping solid wastes
Drum, shipping & storage (DOT UN1A2)	55 gal	9Z 8110-00-030-7780	PPP-D-736	—	Shipping solid wastes
Drum, DOT UN6HA1	55 gal	—	—	—	Shipping liquid wastes
Lab sample shipping container[e]	1,000 ml	—	—	A/R	Shipping lab sample
Mk 4 Mod 2 Pistol Container	—	4T-8140-00-559-2729	—	—	Lab sample shipments
COLIWASA	—	—	—	—	Collecting waste samples

[a]A/R = As required.
[b]Store in flammable locker.
[c]Alcohol, denatured (88.1% ethyl) (9G 6810-00-205-6786) or alcohol, isopropyl (9L 6505-00-039-2578) may be substituted, if required.
[d]These items are not required to be kept on hand, they are components of NG-Killer which is used on a limited basis (section 5-16).
[e]Recommended sources:

(1) Labelmaster
5724 N. Pulaski Road
Chicago, IL 60646-6797
1-800-621-5808

(2) All-Pak, Inc.
2260 Roswell Drive
Pittsburgh, PA 15205
(412) 922-7525

Part description:

(1) 1000 ml SturdeeSeal Combination
Packaging, part style HMS-33