

Appendix A
**Table of Initial Isolation and
Protective Action Distances in the
*2000 Emergency Response Guidebook***



Table A.1 Table of Initial Isolation and Protective Action Distances

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1005	Ammonia, anhydrous	100	0.1	0.1	200	0.3	0.7
1005	Ammonia, anhydrous, liquefied	100	0.1	0.1	200	0.3	0.7
1005	Ammonia, solution, with more than 50% ammonia	100	0.1	0.1	200	0.3	0.7
1005	Anhydrous ammonia	100	0.1	0.1	200	0.3	0.7
1005	Anhydrous ammonia, liquefied	100	0.1	0.1	200	0.3	0.7
1008	Boron trifluoride	100	0.1	0.4	700	1.0	3.2
1008	Boron trifluoride, compressed	100	0.1	0.4	700	1.0	3.2
1016	Carbon monoxide	100	0.1	0.1	400	0.4	1.1
1016	Carbon monoxide, compressed	100	0.1	0.1	400	0.4	1.1
1017	Chlorine	100	0.2	0.7	900	1.7	4.2
1023	Coal gas	100	0.1	0.1	200	0.2	0.3
1023	Coal gas, compressed	100	0.1	0.1	200	0.2	0.3
1026	Cyanogen	100	0.2	0.7	1000	1.9	4.8
1026	Cyanogen, liquefied	100	0.2	0.7	1000	1.9	4.8
1026	Cyanogen gas	100	0.2	0.7	1000	1.9	4.8
1040	Ethylene oxide	100	0.1	0.1	200	0.3	1.1
1040	Ethylene oxide with nitrogen	100	0.1	0.1	200	0.3	1.1
1045	Fluorine	100	0.1	0.3	600	0.9	2.5
1045	Fluorine, compressed	100	0.1	0.3	600	0.9	2.5
1048	Hydrogen bromide, anhydrous	100	0.1	0.3	400	0.7	2.1
1050	Hydrogen chloride, anhydrous	100	0.1	0.4	600	1.0	2.7
1051	AC (when used as a weapon)	200	0.1	0.3	1500	1.0	2.4
1051	Hydrocyanic acid, aqueous solutions, with more than 20% hydrogen cyanide	200	0.1	0.3	1300	0.8	2.1
1051	Hydrocyanic acid, liquefied	200	0.1	0.3	1300	0.8	2.1
1051	Hydrogen cyanide, anhydrous, stabilized	200	0.1	0.3	1300	0.8	2.1
1051	Hydrogen cyanide, stabilized	200	0.1	0.3	1300	0.8	2.1
1052	Hydrogen fluoride, anhydrous	100	0.1	0.4	400	0.7	1.8
1053	Hydrogen sulfide	100	0.1	0.2	700	0.9	2.7
1053	Hydrogen sulfide, liquefied	100	0.1	0.2	700	0.9	2.7
1053	Hydrogen sulphide	100	0.1	0.2	700	0.9	2.7
1053	Hydrogen sulphide, liquefied	100	0.1	0.2	700	0.9	2.7
1062	Methyl bromide	100	0.1	0.2	300	0.3	0.9
1064	Methyl mercaptan	100	0.1	0.2	300	0.5	1.7

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1067	Dinitrogen tetroxide	100	0.1	0.3	1000	0.8	2.4
1067	Dinitrogen tetroxide, liquefied	100	0.1	0.3	1000	0.8	2.4
1067	Nitrogen dioxide	100	0.1	0.3	1000	0.8	2.4
1067	Nitrogen dioxide, liquefied	100	0.1	0.3	1000	0.8	2.4
1067	Nitrogen peroxide, liquid	100	0.1	0.3	1000	0.8	2.4
1067	Nitrogen tetroxide, liquid	100	0.1	0.3	1000	0.8	2.4
1069	Nitrosyl chloride	100	0.2	0.9	1200	2.2	6.1
1071	Oil gas	100	0.1	0.1	100	0.2	0.3
1071	Oil gas, compressed	100	0.1	0.1	100	0.2	0.3
1076	CG (when used as a weapon)	500	0.8	2.0	2500	4.5	7.0+
1076	Diphosgene	200	0.1	0.3	300	0.6	1.2
1076	DP (when used as a weapon)	200	0.2	0.6	600	1.0	2.8
1076	Phosgene	300	0.5	1.7	2500	4.1	6.9
1079	Sulfur dioxide	100	0.2	0.7	600	1.9	4.5
1079	Sulfur dioxide, liquefied	100	0.2	0.7	600	1.9	4.5
1079	Sulphur dioxide	100	0.2	0.7	600	1.9	4.5
1079	Sulphur dioxide, liquefied	100	0.2	0.7	600	1.9	4.5
1082	Trifluorochloroethylene	100	0.1	0.1	100	0.2	0.5
1082	Trifluorochloroethylene, inhibited	100	0.1	0.1	100	0.2	0.5
1092	Acrolein, inhibited	200	0.3	1.0	1300	2.4	4.9
1098	Allyl alcohol	100	0.1	0.1	100	0.2	0.4
1135	Ethylene chlorohydrin	100	0.1	0.2	200	0.4	0.8
1143	Crotonaldehyde, inhibited	100	0.1	0.1	100	0.2	0.5
1143	Crotonaldehyde, stabilized	100	0.1	0.1	100	0.2	0.5
1162	Dimethyldichlorosilane (when spilled in water)	100	0.1	0.2	400	0.7	1.8
1163	1,1-Dimethylhydrazine	100	0.1	0.1	200	0.3	0.7
1163	Dimethylhydrazine, unsymmetrical	100	0.1	0.2	200	0.3	0.7
1182	Ethyl chloroformate	100	0.1	0.2	200	0.4	0.9
1185	Ethyleneimine, inhibited	100	0.2	0.5	500	0.9	2.2
1238	Methyl chloroformate	100	0.2	0.7	500	1.0	2.1
1239	Methyl chloromethyl ether	100	0.1	0.4	400	0.7	1.7
1242	Methyldichlorosilane (when spilled in water)	100	0.1	0.1	200	0.3	1.0
1244	Methylhydrazine	100	0.2	0.5	400	0.7	1.7
1250	Methyltrichlorosilane (when spilled in water)	100	0.1	0.2	400	0.7	1.8
1251	Methyl vinyl ketone	500	0.8	2.1	3000	5.4	7.0+
1251	Methyl vinyl ketone, stabilized	500	0.8	2.1	3000	5.4	7.0+
1259	Nickel carbonyl	200	0.4	1.3	700	1.3	2.7
1295	Trichlorosilane (when spilled in water)	100	0.1	0.2	400	0.8	2.0
1298	Trimethylchlorosilane (when spilled in water)	100	0.1	0.1	300	0.5	1.4

Continued



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ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1340	Phosphorus pentasulfide, free from yellow or white phosphorous (when spilled in water)	100	0.1	0.3	500	0.8	2.0
1340	Phosphorus pentasulphide, free from yellow or white phosphorous (when spilled in water)	100	0.1	0.3	500	0.8	2.0
1360	Calcium phosphide (when spilled in water)	100	0.1	0.5	700	1.3	3.3
1380	Pentaborane	500	0.8	2.3	2500	4.1	6.6
1384	Sodium dithionite (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1384	Sodium hydrosulfite (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1384	Sodium hydrosulphite (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1397	Aluminum phosphide (when spilled in water)	100	0.1	0.5	800	1.5	4.0
1412	Lithium amide (when spilled in water)	100	0.1	0.1	300	0.5	1.2
1419	Magnesium aluminum phosphide (when spilled in water)	100	0.1	0.5	700	1.3	3.4
1432	Sodium phosphide (when spilled in water)	100	0.1	0.3	500	0.9	2.5
1433	Stannic phosphides (when spilled in water)	100	0.1	0.5	600	1.0	2.9
1510	Tetranitromethane	100	0.2	0.3	200	0.4	0.8
1541	Acetone cyanohydrin, stabilized (when spilled in water)	100	0.1	0.1	300	0.5	1.3
1556	MD (when used as a weapon)	100	0.2	0.5	400	0.8	2.2
1556	Methyldichloroarsine	100	0.1	0.2	200	0.3	0.6
1556	PD (when used as a weapon)	100	0.1	0.1	100	0.1	0.2
1560	Arsenic chloride	100	0.1	0.2	200	0.4	0.9
1560	Arsenic trichloride	100	0.1	0.2	200	0.4	0.9
1569	Bromoacetone	100	0.1	0.2	300	0.5	1.2
1580	Chloropicrin	200	0.3	0.8	600	1.1	2.5
1581	Chloropicrin and methyl bromide mixture	100	0.1	0.3	400	0.8	1.9
1581	Methyl bromide and chloropicrin mixtures	100	0.1	0.3	400	0.8	1.9
1581	Methyl bromide and more than 2% chloropicrin mixture, liquid	100	0.2	0.7	700	1.3	3.5
1582	Chloropicrin and methyl chloride mixture	100	0.1	0.5	300	0.6	2.0
1582	Methyl chloride and chloropicrin mixtures	100	0.1	0.5	300	0.6	2.0
1583	Chloropicrin, absorbed	200	0.3	0.8	600	1.1	2.5
1583	Chloropicrin mixture, n.o.s.	100	0.2	0.7	700	1.3	3.5
1589	CK (when used as a weapon)	200	0.4	1.5	1300	2.5	5.0
1589	Cyanogen chloride, inhibited	200	0.3	1.1	900	1.7	4.2
1595	Dimethyl sulfate	100	0.1	0.1	100	0.2	0.4
1595	Dimethyl sulphate	100	0.1	0.1	100	0.2	0.4
1605	Ethylene dibromide	100	0.1	0.1	100	0.2	0.3
1612	Hexaethyl tetraphosphate and compressed gas mixture	100	0.1	0.1	100	0.2	0.9

Continued



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			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1613	Hydrocyanic acid, aqueous solution, with not more than 20% hydrogen cyanide	100	0.1	0.1	400	0.3	0.8
1613	Hydrogen cyanide, aqueous solution, with not more than 20% hydrogen cyanide	100	0.1	0.1	400	0.3	0.8
1614	Hydrogen cyanide, anhydrous, stabilized (absorbed)	200	0.1	0.3	1300	0.8	2.1
1614	Hydrogen cyanide, stabilized (absorbed)	200	0.1	0.3	1300	0.8	2.1
1647	Ethylene dibromide and methyl bromide mixture, liquid	100	0.1	0.1	100	0.2	0.3
1647	Methyl bromide and ethylene dibromide mixture, liquid	100	0.1	0.1	100	0.2	0.3
1660	Nitric oxide	100	0.2	0.8	500	0.8	2.2
1660	Nitric oxide, compressed	100	0.2	0.8	500	0.8	2.2
1670	Perchloromethyl mercaptan	100	0.1	0.2	200	0.3	0.7
1680	Potassium cyanide (when spilled in water)	100	0.1	0.2	300	0.5	1.6
1689	Sodium cyanide (when spilled in water)	100	0.1	0.2	300	0.6	1.6
1694	CA (when used as a weapon)	100	0.1	0.3	500	1.0	2.6
1695	Chloroacetone, stabilized	100	0.1	0.2	200	0.4	0.8
1697	CN (when used as a weapon)	100	0.1	0.3	400	0.7	2.0
1698	Adamsite (when used as a weapon)	200	0.2	0.7	600	1.4	3.2
1698	DM (when used as a weapon)	200	0.2	0.7	600	1.4	3.2
1699	DA (when used as a weapon)	200	0.2	0.7	600	1.4	3.2
1703	Tetraethyl dithiopyrophosphate and gases, in solution	100	0.2	0.7	1200	2.3	4.3
1703	Tetraethyl dithiopyrophosphate and gases, mixtures	100	0.2	0.7	1200	2.3	4.3
1703	Tetraethyl dithiopyrophosphate and gases, mixtures, or in solution (LC ₅₀ more than 200 ppm but not more than 5000 ppm)	100	0.1	0.3	400	0.5	1.8
1703	Tetraethyl dithiopyrophosphate and gases, mixtures, or in solution (LC ₅₀ not more than 200 ppm)	100	0.2	0.7	1200	2.3	4.3
1705	Tetraethyl pyrophosphate and compressed gas mixtures	100	0.2	0.8	1300	2.5	4.5
1705	Tetraethyl pyrophosphate and compressed gas mixtures (LC ₅₀ more than 200 ppm but not more than 5000 ppm)	100	0.1	0.3	400	0.5	1.8
1705	Tetraethyl pyrophosphate and compressed gas mixtures (LC ₅₀ not more than 200 ppm)	100	0.2	0.8	1300	2.5	4.5
1714	Zinc phosphide (when spilled in water)	100	0.1	0.5	600	1.1	3.2
1716	Acetyl bromide (when spilled in water)	100	0.1	0.2	300	0.5	1.4
1717	Acetyl chloride (when spilled in water)	100	0.1	0.2	300	0.6	1.7

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ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1722	Allyl chlorocarbonate	500	0.8	1.7	2000	3.8	6.7
1722	Allyl chloroformate	500	0.8	1.7	2000	3.8	6.7
1724	Allyltrichlorosilane, stabilized (when spilled in water)	100	0.1	0.2	400	0.6	1.8
1725	Aluminum bromide, anhydrous (when spilled in water)	100	0.1	0.2	300	0.6	1.7
1726	Aluminum chloride, anhydrous (when spilled in water)	100	0.1	0.1	200	0.3	1.0
1728	Amyltrichlorosilane (when spilled in water)	100	0.1	0.1	200	0.3	1.0
1732	Antimony pentafluoride (when spilled in water)	100	0.1	0.4	500	1.0	2.3
1736	Benzoyl chloride (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1741	Boron trichloride	100	0.1	0.2	200	0.4	1.0
1744	Bromine	200	0.2	0.7	600	1.0	2.5
1744	Bromine, solution	200	0.2	0.7	600	1.0	2.5
1745	Bromine pentafluoride (when spilled on land)	200	0.3	0.8	800	1.4	3.1
1745	Bromine pentafluoride (when spilled in water)	100	0.1	0.5	700	1.2	2.6
1746	Bromine trifluoride (when spilled on land)	100	0.1	0.2	200	0.2	0.5
1746	Bromine trifluoride (when spilled in water)	100	0.1	0.4	600	1.3	3.4
1747	Butyltrichlorosilane (when spilled in water)	100	0.1	0.1	200	0.3	1.1
1749	Chlorine trifluoride	200	0.3	1.0	1100	2.1	4.8
1752	Chloroacetyl chloride (when spilled on land)	100	0.1	0.3	300	0.5	1.0
1752	Chloroacetyl chloride (when spilled in water)	100	0.1	0.1	200	0.2	0.8
1754	Chlorosulfonic acid (when spilled on land)	100	0.1	0.1	100	0.1	0.3
1754	Chlorosulfonic acid (when spilled in water)	100	0.1	0.1	200	0.3	0.9
1754	Chlorosulfonic acid and sulfur trioxide mixture (when spilled on land)	200	0.2	0.7	1000	1.3	3.5
1754	Chlorosulfonic acid and sulfur trioxide mixture (when spilled in water)	200	0.2	0.7	1000	1.3	3.5
1754	Chlorosulphonic acid (when spilled on land)	100	0.1	0.1	100	0.1	0.3
1754	Chlorosulphonic acid (when spilled in water)	100	0.1	0.1	200	0.3	0.9
1754	Chlorosulphonic acid and sulphur trioxide mixture (when spilled on land)	200	0.2	0.7	1000	1.3	3.5
1754	Chlorosulphonic acid and sulphur trioxide mixture (when spilled in water)	200	0.2	0.7	1000	1.3	3.5
1754	Sulfur trioxide and chlorosulfonic acid mixture (when spilled on land)	200	0.2	0.7	1000	1.3	3.5
1754	Sulfur trioxide and chlorosulfonic acid mixture (when spilled in water)	200	0.2	0.7	1000	1.3	3.5
1754	Sulphur trioxide and chlorosulphonic acid mixture (when spilled on land)	200	0.2	0.7	1000	1.3	3.5
1754	Sulphur trioxide and chlorosulphonic acid mixture (when spilled in water)	200	0.2	0.7	1000	1.3	3.5

Continued



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			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1758	Chromium oxychloride (when spilled in water)	100	0.1	0.1	200	0.2	0.8
1777	Fluorosulfonic acid (when spilled in water)	100	0.1	0.1	200	0.3	0.9
1777	Fluorosulphonic acid (when spilled in water)	100	0.1	0.1	200	0.3	0.9
1801	Octyltrichlorosilane (when spilled in water)	100	0.1	0.2	300	0.5	1.5
1806	Phosphorus pentachloride (when spilled in water)	100	0.1	0.2	400	0.6	1.8
1809	Phosphorus trichloride (when spilled on land)	100	0.1	0.4	400	0.7	1.7
1809	Phosphorus trichloride (when spilled in water)	100	0.1	0.2	400	0.7	1.6
1810	Phosphorus oxychloride (when spilled on land)	100	0.1	0.3	300	0.5	1.1
1810	Phosphorus oxychloride (when spilled in water)	100	0.1	0.2	300	0.6	1.6
1818	Silicon tetrachloride (when spilled in water)	100	0.1	0.2	400	0.8	2.1
1828	Sulfur chlorides (when spilled on land)	100	0.1	0.2	200	0.3	0.6
1828	Sulfur chlorides (when spilled in water)	100	0.1	0.1	200	0.4	1.4
1828	Sulphur chlorides (when spilled on land)	100	0.1	0.2	200	0.3	0.6
1828	Sulphur chlorides (when spilled in water)	100	0.1	0.1	200	0.4	1.4
1829	Sulfur trioxide	200	0.2	0.7	1000	1.3	3.5
1829	Sulfur trioxide, inhibited	200	0.2	0.7	1000	1.3	3.5
1829	Sulfur trioxide, stabilized	200	0.2	0.7	1000	1.3	3.5
1829	Sulfur trioxide, uninhibited	200	0.2	0.7	1000	1.3	3.5
1829	Sulphur trioxide	200	0.2	0.7	1000	1.3	3.5
1829	Sulphur trioxide, inhibited	200	0.2	0.7	1000	1.3	3.5
1829	Sulphur trioxide, stabilized	200	0.2	0.7	1000	1.3	3.5
1829	Sulphur trioxide, uninhibited	200	0.2	0.7	1000	1.3	3.5
1831	Oleum	200	0.2	0.7	1000	1.3	3.5
1831	Oleum, with not less than 30% free sulfur trioxide	200	0.2	0.7	1000	1.3	3.5
1831	Oleum, with not less than 30% free sulphur trioxide	200	0.2	0.7	1000	1.3	3.5
1831	Sulfuric acid, fuming	200	0.2	0.7	1000	1.3	3.5
1831	Sulfuric acid, fuming, with not less than 30% free sulfur trioxide	200	0.2	0.7	1000	1.3	3.5
1831	Sulphuric acid, fuming	200	0.2	0.7	1000	1.3	3.5
1831	Sulphuric acid, fuming, with not less than 30% free sulphur trioxide	200	0.2	0.7	1000	1.3	3.5
1834	Sulfuryl chloride (when spilled on land)	100	0.1	0.1	100	0.2	0.4
1834	Sulfuryl chloride (when spilled in water)	100	0.1	0.1	400	0.7	1.5
1834	Sulphuryl chloride (when spilled on land)	100	0.1	0.1	100	0.2	0.4
1834	Sulphuryl chloride (when spilled in water)	100	0.1	0.1	400	0.7	1.5
1836	Thionyl chloride (when spilled on land)	100	0.1	0.3	200	0.3	0.7
1836	Thionyl chloride (when spilled in water)	100	0.1	0.6	1100	2.0	4.4

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1838	Titanium tetrachloride (when spilled on land)	100	0.1	0.1	100	0.2	0.5
1838	Titanium tetrachloride (when spilled in water)	100	0.1	0.2	400	0.7	1.8
1859	Silicon tetrafluoride	100	0.1	0.3	200	0.3	1.0
1859	Silicon tetrafluoride, compressed	100	0.1	0.3	200	0.3	1.0
1892	ED (when used as a weapon)	100	0.2	0.5	400	0.8	1.6
1892	Ethylchloroarsine	100	0.1	0.2	200	0.3	0.6
1898	Acetyl iodide (when spilled in water)	100	0.1	0.1	200	0.4	1.0
1911	Diborane	100	0.1	0.2	300	0.6	1.7
1911	Diborane, compressed	100	0.1	0.2	300	0.6	1.7
1923	Calcium dithionite (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1923	Calcium hydrosulfite (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1923	Calcium hydrosulphite (when spilled in water)	100	0.1	0.1	100	0.2	0.7
1939	Phosphorus oxybromide (when spilled in water)	100	0.1	0.2	300	0.4	1.2
1939	Phosphorus oxybromide, solid (when spilled in water)	100	0.1	0.2	300	0.4	1.2
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1953	Compressed gas, toxic, flammable, n.o.s.	600	1.1	3.5	3000	6.7	7.0+

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1953	Liquefied gas, flammable, poisonous, n.o.s.	600	1.1	3.5	3000	6.7	7.0+
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1953	Liquefied gas, flammable, toxic, n.o.s.	600	1.1	3.5	3000	6.7	7.0+
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1953	Poisonous gas, flammable, n.o.s.	600	1.1	3.5	3000	6.7	7.0+
1953	Poisonous liquid, flammable, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
1955	Compressed gas, poisonous, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1955	Compressed gas, toxic, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1955	Liquefied gas, poisonous, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1955	Liquefied gas, toxic, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
1955	Methyl bromide and nonflammable, nonliquefied compressed gas mixture	100	0.1	0.2	300	0.3	0.9
1955	Organic phosphate compound mixed with compressed gas	100	0.2	0.8	1300	2.5	4.5
1955	Organic phosphate mixed with compressed gas	100	0.2	0.8	1300	2.5	4.5
1955	Organic phosphorus compound mixed with compressed gas	100	0.2	0.8	1300	2.5	4.5
1967	Insecticide gas, poisonous, n.o.s.	100	0.2	0.8	1300	2.5	4.5
1967	Insecticide gas, toxic, n.o.s.	100	0.2	0.8	1300	2.5	4.5
1967	Parathion and compressed gas mixture	100	0.1	0.2	300	0.6	2.0
1975	Dinitrogen tetroxide and nitric oxide mixture	100	0.2	0.8	500	0.8	2.2
1975	Nitric oxide and dinitrogen tetroxide mixture	100	0.2	0.8	500	0.8	2.2
1975	Nitric oxide and nitrogen dioxide mixture	100	0.2	0.8	500	0.8	2.2
1975	Nitric oxide and nitrogen tetroxide mixture	100	0.2	0.8	500	0.8	2.2
1975	Nitrogen dioxide and nitric oxide mixture	100	0.2	0.8	500	0.8	2.2
1975	Nitrogen tetroxide and nitric oxide mixture	100	0.2	0.8	500	0.8	2.2
1994	Iron pentacarbonyl	100	0.2	0.4	400	0.7	1.5
2004	Magnesium diamide (when spilled in water)	100	0.1	0.1	200	0.3	0.8
2011	Magnesium phosphide (when spilled in water)	100	0.1	0.5	800	1.4	3.7
2012	Potassium phosphide (when spilled in water)	100	0.1	0.3	500	0.8	2.5

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
2013	Strontium phosphide (when spilled in water)	100	0.1	0.3	500	0.8	2.3
2032	Nitric acid, fuming	300	0.2	0.3	1300	0.8	2.2
2032	Nitric acid, red fuming	300	0.2	0.3	1300	0.8	2.2
2186	Hydrogen chloride, refrigerated liquid	100	0.1	0.4	600	1.0	2.7
2188	Arsine	200	0.3	1.3	1100	2.0	4.1
2188	SA (when used as a weapon)	200	0.5	1.5	1300	2.5	5.0
2189	Dichlorosilane	100	0.2	0.6	800	1.5	3.9
2190	Oxygen difluoride	1400	2.6	5.2	3000	7.0+	7.0+
2190	Oxygen difluoride, compressed	1400	2.6	5.2	3000	7.0+	7.0+
2191	Sulfuryl fluoride	100	0.1	0.2	300	0.5	1.4
2191	Sulphuryl fluoride	100	0.1	0.2	300	0.5	1.4
2192	Germane	100	0.1	0.5	900	1.7	4.1
2194	Selenium hexafluoride	100	0.2	0.8	800	1.4	3.7
2195	Tellurium hexafluoride	200	0.4	1.4	1200	2.2	4.7
2196	Tungsten hexafluoride	100	0.2	0.8	500	0.8	2.3
2197	Hydrogen iodide, anhydrous	100	0.1	0.3	300	0.5	1.6
2198	Phosphorus pentafluoride	100	0.2	0.7	400	0.7	2.2
2198	Phosphorus pentafluoride, compressed	100	0.2	0.7	400	0.7	2.2
2199	Phosphine	300	0.2	0.8	1600	1.1	3.4
2202	Hydrogen selenide, anhydrous	600	1.1	3.5	3000	6.7	7.0+
2204	Carbonyl sulfide	100	0.1	0.4	700	1.2	3.5
2204	Carbonyl sulphide	100	0.1	0.4	700	1.2	3.5
2232	Chloroacetaldehyde	100	0.1	0.3	200	0.4	1.0
2232	2-Chloroethanal	100	0.1	0.3	200	0.4	1.0
2334	Allylamine	100	0.1	0.3	300	0.6	1.5
2337	Phenyl mercaptan	100	0.1	0.1	100	0.2	0.4
2382	1,2-Dimethylhydrazine	100	0.1	0.2	200	0.3	0.7
2382	Dimethylhydrazine, symmetrical	100	0.1	0.2	200	0.3	0.7
2407	Isopropyl chloroformate	100	0.1	0.2	300	0.5	1.2
2417	Carbonyl fluoride	100	0.1	0.7	400	0.6	1.9
2417	Carbonyl fluoride, compressed	100	0.1	0.7	400	0.6	1.9
2418	Sulfur tetrafluoride	200	0.3	1.2	1000	1.8	4.3
2418	Sulphur tetrafluoride	200	0.3	1.2	1000	1.8	4.3
2420	Hexafluoroacetone	100	0.2	0.9	1200	2.3	5.3
2421	Nitrogen trioxide	100	0.1	0.1	500	0.4	1.3
2438	Trimethylacetyl chloride	100	0.1	0.1	100	0.2	0.5
2442	Trichloroacetyl chloride (when spilled on land)	100	0.1	0.2	200	0.4	0.9
2442	Trichloroacetyl chloride (when spilled in water)	100	0.1	0.1	100	0.2	0.8
2474	Thiophosgene	200	0.4	1.1	900	1.6	3.1

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
2477	Methyl isothiocyanate	100	0.1	0.2	200	0.3	0.7
2480	Methyl isocyanate	300	0.5	1.7	1600	3.0	6.1
2481	Ethyl isocyanate	700	1.2	2.7	3000	7.0+	7.0+
2482	n-Propyl isocyanate	400	0.7	1.5	2500	3.9	6.6
2483	Isopropyl isocyanate	600	1.1	2.4	1400	2.6	4.6
2484	tert-Butyl isocyanate	400	0.6	1.5	1800	3.3	6.4
2485	n-Butyl isocyanate	300	0.5	1.0	1100	1.9	3.9
2486	Isobutyl isocyanate	200	0.4	0.9	500	1.0	2.0
2487	Phenyl isocyanate	100	0.2	0.5	500	0.8	1.6
2488	Cyclohexyl isocyanate	100	0.1	0.2	300	0.5	0.9
2495	Iodine pentafluoride (when spilled in water)	100	0.1	0.3	400	0.7	1.9
2521	Diketene, inhibited	100	0.1	0.1	100	0.2	0.3
2534	Methylchlorosilane	100	0.1	0.6	700	1.3	3.5
2548	Chlorine pentafluoride	100	0.2	0.6	1200	2.3	5.4
2576	Phosphorus oxybromide, molten (when spilled in water)	100	0.1	0.2	300	0.4	1.2
2600	Carbon monoxide and hydrogen mixture	100	0.1	0.1	400	0.4	1.1
2600	Carbon monoxide and hydrogen mixture, compressed	100	0.1	0.1	400	0.4	1.1
2600	Hydrogen and carbon monoxide mixture	100	0.1	0.1	400	0.4	1.1
2600	Hydrogen and carbon monoxide mixture, compressed	100	0.1	0.1	400	0.4	1.1
2605	Methoxymethyl isocyanate	200	0.2	0.5	400	0.8	1.6
2606	Methyl orthosilicate	100	0.1	0.1	100	0.2	0.4
2644	Methyl iodide	100	0.1	0.2	200	0.2	0.6
2646	Hexachlorocyclopentadiene	100	0.1	0.1	100	0.1	0.2
2668	Chloroacetonitrile	100	0.1	0.1	100	0.2	0.3
2676	Stibine	100	0.2	1.0	800	1.4	3.7
2691	Phosphorus pentabromide (when spilled in water)	100	0.1	0.2	300	0.5	1.5
2692	Boron tribromide (when spilled on land)	100	0.1	0.2	200	0.4	0.9
2692	Boron tribromide (when spilled in water)	100	0.1	0.1	200	0.3	1.0
2740	n-Propyl chloroformate	100	0.1	0.2	200	0.3	0.9
2742	sec-Butyl chloroformate	100	0.1	0.1	100	0.2	0.4
2742	Isobutyl chloroformate	100	0.1	0.1	200	0.2	0.5
2743	n-Butyl chloroformate	100	0.1	0.1	100	0.2	0.3
2806	Lithium nitride (when spilled in water)	100	0.1	0.1	300	0.5	1.3

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
2810	Bis-(2-chloroethyl) ethylamine	100	0.1	0.1	100	0.1	0.2
2810	Bis-(2-chloroethyl) methylamine	100	0.1	0.1	100	0.1	0.2
2810	Bis-(2-chloroethyl) sulfide	100	0.1	0.1	100	0.1	0.2
2810	Bis-(2-chloroethyl) sulphide	100	0.1	0.1	100	0.1	0.2
2810	Buzz (when used as a weapon)	100	0.1	0.3	200	0.3	1.2
2810	BZ (when used as a weapon)	100	0.1	0.3	200	0.3	1.2
2810	CS (when used as a weapon)	200	0.2	0.7	800	1.6	3.5
2810	DC (when used as a weapon)	100	0.1	0.5	800	1.4	3.3
2810	O-Ethyl S-(2-diisopropylaminoethyl) methylphosphonothiolate	100	0.1	0.1	100	0.1	0.1
2810	Ethyl N,N-dimethylphosphoramidocyanidate	100	0.1	0.1	200	0.3	0.6
2810	GA (when used as a weapon)	100	0.2	0.4	500	1.0	1.9
2810	GB (when used as a weapon)	500	1.0	2.1	3000	7.0+	7.0+
2810	GD (when used as a weapon)	300	0.5	1.1	2500	4.2	6.5
2810	GF (when used as a weapon)	100	0.2	0.4	800	1.4	3.2
2810	H (when used as a weapon)	100	0.1	0.1	200	0.4	0.7
2810	HD (when used as a weapon)	100	0.1	0.1	200	0.4	0.7
2810	HL (when used as a weapon)	100	0.1	0.2	300	0.6	1.1
2810	HN-1 (when used as a weapon)	100	0.1	0.1	200	0.4	0.8
2810	HN-2 (when used as a weapon)	100	0.1	0.1	200	0.3	0.7
2810	HN-3 (when used as a weapon)	100	0.1	0.1	100	0.1	0.2
2810	Isopropyl methylphosphonofluoridate	400	0.8	1.4	1800	3.3	5.4
2810	L (Lewisite) (when used as a weapon)	100	0.1	0.2	300	0.6	1.1
2810	Lewisite (when used as a weapon)	100	0.1	0.2	300	0.6	1.1
2810	Mustard (when used as a weapon)	100	0.1	0.1	100	0.1	0.2
2810	Mustard Lewisite (when used as a weapon)	100	0.1	0.2	300	0.6	1.1
2810	Pinacolyl methylphosphonofluoridate	200	0.3	0.5	700	1.3	1.9
2810	Poisonous liquid, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
2810	Poisonous liquid, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
2810	Poisonous liquid, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
2810	Poisonous liquid, organic, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
2810	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
2810	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone B)	200	0.2	0.7	600	1.0	2.5
2810	Sarin (when used as a weapon)	500	1.0	2.1	3000	7.0+	7.0+
2810	Soman (when used as a weapon)	300	0.5	1.1	2500	4.2	6.5
2810	Tabun (when used as a weapon)	100	0.2	0.4	500	1.0	1.9

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
2810	Thickened GD (when used as a weapon)	300	0.5	1.1	2500	4.2	6.5
2810	Toxic liquid, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
2810	Toxic liquid, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
2810	Toxic liquid, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
2810	Toxic liquid, organic, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
2810	Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
2810	Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone B)	200	0.2	0.7	600	1.0	2.5
2810	Tris-(2-chloroethyl) amine	100	0.1	0.1	100	0.1	0.1
2810	VX (when used as a weapon)	100	0.1	0.1	200	0.4	0.6
2811	CX (when used as a weapon)	100	0.1	0.3	300	0.6	1.9
2826	Ethyl chloroethioformate	100	0.1	0.1	200	0.3	0.5
2845	Ethyl phosphonous dichloride, anhydrous	200	0.3	0.8	500	1.0	2.1
2845	Methyl phosphonous dichloride	200	0.3	0.8	800	1.4	3.1
2901	Bromine chloride	100	0.2	0.6	500	1.0	2.5
2927	Ethyl phosphonothioic dichloride, anhydrous	100	0.1	0.1	100	0.1	0.1
2927	Ethyl phosphorodichloridate	100	0.1	0.1	100	0.1	0.2
2927	Poisonous liquid, corrosive, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.2	0.7	800	1.0	2.5
2927	Toxic liquid, corrosive, organic, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.5	500	0.9	2.2
2929	Poisonous liquid, flammable, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.1	3000	5.4	7.0+
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	100	0.1	0.4	400	0.7	1.7
2929	Poisonous liquid, flammable, organic, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.1	3000	5.4	7.0+
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	100	0.1	0.4	400	0.7	1.7
2929	Toxic liquid, flammable, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
2929	Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.1	3000	5.4	7.0+

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
2929	Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	100	0.1	0.4	400	0.7	1.7
2929	Toxic liquid, flammable, organic, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
2929	Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.1	3000	5.4	7.0+
2929	Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	100	0.1	0.4	400	0.7	1.7
2977	Radioactive material, Uranium hexafluoride, fissile (when spilled in water)	100	0.1	0.3	300	0.6	1.9
2977	Uranium hexafluoride, fissile containing more than 1% uranium-235 (when spilled in water)	100	0.1	0.3	300	0.6	1.9
2978	Radioactive material, uranium hexafluoride, non fissile or fissile-excepted (when spilled in water)	100	0.1	0.3	300	0.6	1.9
2978	Uranium hexafluoride, fissile excepted (when spilled in water)	100	0.1	0.3	300	0.6	1.9
2978	Uranium hexafluoride, low specific activity (when spilled in water)	100	0.1	0.3	300	0.6	1.9
2978	Uranium hexafluoride, non-fissile (when spilled in water)	100	0.1	0.3	300	0.6	1.9
2985	Chlorosilanes, flammable, corrosive, n.o.s. (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2985	Chlorosilanes, n.o.s (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2986	Chlorosilanes, corrosive, flammable, n.o.s. (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2986	Chlorosilanes, n.o.s. (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2987	Chlorosilanes, corrosive, n.o.s. (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2987	Chlorosilanes, n.o.s (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2988	Chlorosilanes, n.o.s. (when spilled in water)	100	0.1	0.2	400	0.7	1.8
2988	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s. (when spilled in water)	100	0.1	0.2	400	0.7	1.8
3023	2-Methyl-2-heptanethiol	100	0.1	0.1	200	0.3	0.7
3023	tert-Octyl mercaptan	100	0.1	0.1	200	0.3	0.7
3048	Aluminum phosphide pesticide (when spilled in water)	100	0.1	0.5	700	1.2	3.3
3049	Metal alkyl halides, n.o.s. (when spilled in water)	100	0.1	0.1	100	0.2	0.8
3049	Metal alkyl halides, water-reactive, n.o.s. (when spilled in water)	100	0.1	0.1	100	0.2	0.8
3049	Metal aryl halides, n.o.s. (when spilled in water)	100	0.1	0.1	100	0.2	0.8
3049	Metal aryl halides, water-reactive, n.o.s. (when spilled in water)	100	0.1	0.1	100	0.2	0.8

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3052	Aluminum alkyl halides (when spilled in water)	100	0.1	0.1	100	0.2	0.8
3057	Trifluoroacetyl chloride	100	0.2	0.9	1400	2.5	5.3
3079	Methacrylonitrile, inhibited	100	0.1	0.3	200	0.4	1.0
3083	Perchloryl fluoride	100	0.1	0.6	700	1.4	3.5
3122	Poisonous liquid, oxidizing, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
3122	Poisonous liquids, oxidizing, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.1	3000	5.4	7.0+
3122	Poisonous liquids, oxidizing, n.o.s. (Inhalation Hazard Zone B)	100	0.1	0.4	400	0.7	1.7
3122	Toxic liquid, oxidizing, n.o.s.	500	0.8	2.1	3000	5.4	7.0+
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.1	3000	5.4	7.0+
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	100	0.1	0.4	400	0.7	1.7
3123	Poisonous liquid, water-reactive, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
3123	Toxic liquid, water-reactive, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
3123	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
3123	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s.	700	1.2	2.7	3000	7.0+	7.0+
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	700	1.2	2.7	3000	7.0+	7.0+
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3160	Liquefied gas, poisonous, flammable, n.o.s.	600	1.1	3.5	3000	6.7	7.0+
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3160	Liquefied gas, toxic, flammable, n.o.s.	600	1.1	3.5	3000	6.7	7.0+
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	600	1.1	3.5	3000	6.7	7.0+
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	100	0.2	0.7	1000	1.9	4.8
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	100	0.1	0.6	700	1.3	3.5
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3162	Liquefied gas, poisonous, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3162	Liquefied gas, toxic, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3246	Methanesulfonyl chloride	300	0.4	1.5	800	1.4	3.2
3246	Methanesulphonyl chloride	300	0.4	1.5	800	1.4	3.2
3275	Nitriles, poisonous, flammable, n.o.s.	100	0.1	0.3	200	0.4	1.0
3275	Nitriles, toxic, flammable, n.o.s.	100	0.1	0.3	200	0.4	1.0
3276	Nitriles, poisonous, n.o.s.	100	0.1	0.3	200	0.4	1.0
3276	Nitriles, toxic, n.o.s.	100	0.1	0.3	200	0.4	1.0

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3278	Organophosphorus compound, poisonous, n.o.s.	200	0.3	0.8	800	1.4	3.1
3278	Organophosphorus compound, toxic, n.o.s.	200	0.3	0.8	800	1.4	3.1
3279	Organophosphorus compound, poisonous, flammable, n.o.s.	200	0.3	0.8	800	1.4	3.1
3279	Organophosphorus compound, toxic, flammable, n.o.s.	200	0.3	0.8	800	1.4	3.1
3280	Organoarsenic compound, n.o.s.	100	0.1	0.5	600	1.1	2.7
3281	Metal carbonyls, n.o.s.	200	0.4	1.3	700	1.3	2.7
3287	Poisonous liquid, inorganic, n.o.s.	500	0.8	2.3	2500	4.1	6.6
3287	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.3	2500	4.1	6.6
3287	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
3287	Toxic liquid, inorganic, n.o.s.	500	0.8	2.3	2500	4.1	6.6
3287	Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)	500	0.8	2.3	2500	4.1	6.6
3287	Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	200	0.3	0.8	800	1.4	3.1
3289	Poisonous liquid, corrosive, inorganic, n.o.s.	300	0.4	1.1	1300	1.6	3.1
3289	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	300	0.4	1.1	1300	1.6	3.1
3289	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	200	0.2	0.7	600	1.0	2.5
3289	Toxic liquid, corrosive, inorganic, n.o.s.	300	0.4	1.1	1300	1.6	3.1
3289	Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	300	0.4	1.1	1300	1.6	3.1
3289	Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	200	0.2	0.7	600	1.0	2.5
3294	Hydrogen cyanide, solution in alcohol, with not more than 45% hydrogen cyanide	100	0.1	0.2	700	0.4	1.2
3300	Carbon dioxide and ethylene oxide mixture, with more than 87% ethylene oxide	100	0.1	0.1	200	0.3	1.1
3300	Ethylene oxide and carbon dioxide mixture, with more than 87% ethylene oxide	100	0.1	0.1	200	0.3	1.1

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3303	Compressed gas, poisonous, oxidizing, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3303	Compressed gas, toxic, oxidizing, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3304	Compressed gas, poisonous, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3304	Compressed gas, toxic, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3305	Compressed gas, toxic, flammable, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3307	Liquefied gas, poisonous, oxidizing, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3307	Liquefied gas, toxic, oxidizing, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3308	Liquefied gas, poisonous, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3308	Liquefied gas, toxic, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	1400	2.6	5.2	3000	7.0+	7.0+
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1100	2.1	4.8
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	600	1.9	4.5
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3318	Ammonia solution, with more than 50% ammonia	100	0.1	0.1	200	0.3	0.7

Continued



Table A.1 Table of Initial Isolation and Protective Action Distances (Cont.)

ID No.	Name of Material	Small Spills			Large Spills		
		First Isolate in All Directions (ft)	Then Protect Persons Downwind during		First Isolate in All Directions (ft)	Then Protect Persons Downwind during	
			Day (mi)	Night (mi)		Day (mi)	Night (mi)
3355	Insecticide gas, poisonous, flammable, n.o.s	1400	2.6	5.2	3000	7.0+	7.0+
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
3355	Insecticide gas, toxic, flammable, n.o.s	1400	2.6	5.2	3000	7.0+	7.0+
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	1400	2.6	5.2	3000	7.0+	7.0+
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	200	0.3	1.0	1400	2.5	6.1
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	100	0.2	0.8	700	1.9	4.5
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	100	0.1	0.4	600	1.0	2.7
9191	Chlorine dioxide, hydrate, frozen (when spilled in water)	100	0.1	0.1	100	0.1	0.4
9192	Fluorine, refrigerated liquid (cryogenic liquid)	100	0.1	0.3	600	0.9	2.5
9202	Carbon monoxide, refrigerated liquid (cryogenic liquid)	100	0.1	0.1	400	0.4	1.1
9206	Methyl phosphonic dichloride	100	0.1	0.1	100	0.1	0.2
9263	Chloropivaloyl chloride	100	0.1	0.1	100	0.2	0.3
9264	3,5-Dichloro-2,4,6-trifluoropyridine	100	0.1	0.1	100	0.2	0.3
9269	Trimethoxysilane	100	0.2	0.6	700	1.3	2.6

