

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1005	Ammonia, anhydrous	30m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60m	(200 ft)	0.6 km (0.4 mi)	2.2 km (1.4 mi)
1005	Ammonia, anhydrous, liquefied								
1005	Ammonia, solution, with more than 50% Ammonia								
1005	Anhydrous ammonia								
1005	Anhydrous ammonia, liquefied								
1008	Boron trifluoride	30m	(100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	180 m	(600 ft)	1.8 km (1.1 mi)	4.8 km (3.0 mi)
1008	Boron trifluoride, compressed								
1016	Carbon monoxide	30m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	90 m	(300 ft)	0.7 km (0.4 mi)	2.4 km (1.5 mi)
1016	Carbon monoxide, compressed								
1017	Chlorine	30m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	7.4 km (4.6 mi)
1023	Coal gas	30m	(100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	60 m	(200 ft)	0.4 km (0.2 mi)	0.5 km (0.3 mi)
1023	Coal gas, compressed								
1026	Cyanogen	30m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	120 m	(400 ft)	1.1 km (0.7 mi)	4.3 km (2.7 mi)
1026	Cyanogen, liquefied								
1026	Cyanogen gas								
1040	Ethylene oxide	30m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)
1040	Ethylene oxide with Nitrogen								
1045	Fluorine	30m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	3.5 km (2.2 mi)
1045	Fluorine, compressed								
1048	Hydrogen bromide, anhydrous	30m	(100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	180 m	(600 ft)	1.8 km (1.1 mi)	5.7 km (3.6 mi)
1050	Hydrogen chloride, anhydrous	30m	(100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	360 m	(1200 ft)	3.6 km (2.2 mi)	10.4 km (6.5 mi)
1051	AC (when used as a weapon)	60m	(200 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	500 m	(1500 ft)	1.7 km (1.0 mi)	3.9 km (2.4 mi)

1051	Hydrocyanic acid, aqueous solutions, with more than 20% Hydrogen cyanide	30 m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	150 m (500 ft)	1.3 km (0.8 mi)	3.7 km (2.3 mi)	
1051	Hydrocyanic acid, liquefied							
1051	Hydrogen cyanide, anhydrous, stabilized							
1051	Hydrogen cyanide, stabilized							
1052	Hydrogen fluoride, anhydrous	30 m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	210 m (700 ft)	1.9 km (1.2 mi)	4.3 km (2.7 mi)	
1053	Hydrogen sulfide	30 m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	210 m (700 ft)	2.1 km (1.3 mi)	6.2 km (3.9 mi)	
1053	Hydrogen sulfide, liquefied							
1053	Hydrogen sulphide							
1053	Hydrogen sulphide, liquefied							
1062	Methyl bromide	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.7 km (0.5 mi)	2.2 km (1.4 mi)	
1064	Methyl mercaptan	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	150 m (500 ft)	1.3 km (0.8 mi)	4.5 km (2.8 mi)	
1067	Dinitrogen tetroxide	30 m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	150 m (500 ft)	1.6 km (1.0 mi)	4.1 km (2.5 mi)	
1067	Dinitrogen tetroxide, liquefied							
1067	Nitrogen dioxide							
1067	Nitrogen dioxide, liquefied							
1069	Nitrosyl chloride	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	450 m (1500 ft)	4.3 km (2.7 mi)	11.0 km (6.9 mi)	
1071	Oil gas	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	60 m (200 ft)	0.4 km (0.2 mi)	0.5 km (0.3 mi)	
1071	Oil gas, compressed							
1076	CG (when used as a weapon)	150 m (500 ft)	1.3 km (0.8 mi)	3.3 km (2.0 mi)	800 m (2500 ft)	7.3 km (4.5 mi)	11.0+ km (7.0+ mi)	
1076	Diphosgene	90 m (300 ft)	0.9 km (0.6 mi)	4.1 km (2.6 mi)	800 m (2500 ft)	6.6 km (4.1 mi)	11.0+ km (7.0+ mi)	
1076	DP (when used as a weapon)	60 m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	180 m (600 ft)	1.7 km (1.0 mi)	4.6 km (2.8 mi)	
1076	Phosgene	90 m (300 ft)	0.9 km (0.6 mi)	4.1 km (2.6 mi)	800 m (2500 ft)	6.6 km (4.1 mi)	11.0+ km (7.0+ mi)	
1079	Sulfur dioxide	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	210 m (700 ft)	2.0 km (1.3 mi)	6.3 km (3.9 mi)	
1079	Sulfur dioxide, liquefied							
1079	Sulphur dioxide							
1079	Sulphur dioxide, liquefied							

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ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1082	Trifluorochloroethylene	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m	(200 ft)	0.4 km (0.3 mi)	0.8 km (0.5 mi)
1082	Trifluorochloroethylene, inhibited								
1082	Trifluorochloroethylene, stabilized								
1092	Acrolein, inhibited	60 m	(200 ft)	0.5 km (0.3 mi)	1.7 km (1.1 mi)	500 m	(1600 ft)	4.8 km (3.0 mi)	10.2 km (6.3 mi)
1092	Acrolein, stabilized								
1098	Allyl alcohol	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m	(200 ft)	0.4 km (0.2 mi)	0.6 km (0.4 mi)
1135	Ethylene chlorohydrin	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	1.5 km (1.0 mi)
1143	Crotonaldehyde, inhibited	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m	(200 ft)	0.4 km (0.3 mi)	0.8 km (0.5 mi)
1143	Crotonaldehyde, stabilized								
1162	Dimethyldichlorosilane <i>(when spilled in water)</i>	30 m	(100 ft)	0.2 km (0.2 mi)	1.1 km (0.7 mi)	300 m	(1000 ft)	3.0 km (1.9 mi)	7.9 km (4.9 mi)
1163	1,1-Dimethylhydrazine	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60 m	(200 ft)	0.5 km (0.4 mi)	1.2 km (0.8 mi)
1163	Dimethylhydrazine, unsymmetrical								
1182	Ethyl chloroformate	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	90 m	(300 ft)	0.9 km (0.6 mi)	1.8 km (1.1 mi)
1185	Ethyleneimine, inhibited	30 m	(100 ft)	0.2 km (0.2 mi)	0.7 km (0.5 mi)	180 m	(600 ft)	1.8 km (1.2 mi)	4.0 km (2.5 mi)
1185	Ethyleneimine, stabilized								
1196	Ethyltrichlorosilane <i>(when spilled in water)</i>	30 m	(100 ft)	0.2 km (0.2 mi)	1.1 km (0.7 mi)	300 m	(1000 ft)	3.0 km (1.9 mi)	7.9 km (4.9 mi)
1238	Methyl chloroformate	30 m	(100 ft)	0.3 km (0.2 mi)	0.8 km (0.5 mi)	180 m	(600 ft)	1.8 km (1.1 mi)	3.9 km (2.4 mi)
1239	Methyl chloromethyl ether	30 m	(100 ft)	0.3 km (0.2 mi)	1.0 km (0.6 mi)	270 m	(900 ft)	2.5 km (1.6 mi)	5.6 km (3.5 mi)
1242	Methyldichlorosilane <i>(when spilled in water)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	180 m	(600 ft)	1.6 km (1.0 mi)	4.8 km (3.0 mi)
1244	Methylhydrazine	30 m	(100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)	150 m	(500 ft)	1.4 km (0.9 mi)	2.9 km (1.8 mi)

1250	Methyltrichlorosilane <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	150 m (500 ft)	1.3 km (0.8 mi)	4.0 km (2.5 mi)	
1251	Methyl vinyl ketone	150 m (500 ft)	1.3 km (0.8 mi)	3.3 km (2.1 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
1251	Methyl vinyl ketone, stabilized							
1259	Nickel carbonyl	90 m (300 ft)	0.8 km (0.5 mi)	3.5 km (2.2 mi)	500 m (1600 ft)	4.7 km (2.9 mi)	9.8 km (6.1 mi)	
1295	Trichlorosilane <i>(when spilled in water)</i>	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	270 m (900 ft)	2.5 km (1.6 mi)	6.5 km (4.1 mi)	
1298	Trimethylchlorosilane <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.7 km (1.7 mi)	
1305	Vinyltrichlorosilane <i>(when spilled in water)</i>	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.5 mi)	180 m (600 ft)	1.8 km (1.1 mi)	5.0 km (3.1 mi)	
1305	Vinyltrichlorosilane, inhibited <i>(when spilled in water)</i>							
1305	Vinyltrichlorosilane, stabilized <i>(when spilled in water)</i>							
1340	Phosphorus pentasulfide, free from yellow or white Phosphorus <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	150 m (500 ft)	1.0 km (0.6 mi)	3.9 km (2.4 mi)	
1340	Phosphorus pentasulphide, free from yellow or white Phosphorus <i>(when spilled in water)</i>							
1360	Calcium phosphide <i>(when spilled in water)</i>	60 m (200 ft)	0.5 km (0.3 mi)	2.1 km (1.3 mi)	800 m (2500 ft)	6.3 km (3.9 mi)	11.0+ km (7.0+ mi)	
1380	Pentaborane	90 m (300 ft)	0.9 km (0.6 mi)	3.3 km (2.1 mi)	600 m (1800 ft)	5.3 km (3.3 mi)	11.0 km (6.9 mi)	
1384	Sodium dithionite <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.4 km (0.3 mi)	1.3 km (0.8 mi)	
1384	Sodium hydrosulfite <i>(when spilled in water)</i>							
1384	Sodium hydrosulphite <i>(when spilled in water)</i>							
1397	Aluminum phosphide <i>(when spilled in water)</i>	90 m (300 ft)	0.6 km (0.4 mi)	2.7 km (1.7 mi)	1000 m (3000 ft)	9.0 km (5.6 mi)	11.0+ km (7.0+ mi)	

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		First ISOLATE in all Directions		Then PROTECT persons Downwind during-				First ISOLATE in all Directions		Then PROTECT persons Downwind during-				
		Meters	Feet	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	Feet	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)					
1412	Lithium amide <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	30 m	(100 ft)	0.4 km (0.2 mi)	1.6 km (1.0 mi)					
1419	Magnesium aluminum phosphide <i>(when spilled in water)</i>	60 m	(200 ft)	0.6 km (0.4 mi)	2.5 km (1.6 mi)	1000 m	(3000 ft)	7.9 km (4.9 mi)	11.0+ km (7.0+ mi)					
1432	Sodium phosphide <i>(when spilled in water)</i>	60 m	(200 ft)	0.4 km (0.2 mi)	1.7 km (1.1 mi)	500 m	(1600 ft)	4.7 km (2.9 mi)	11.0+ km (7.0+ mi)					
1510	Tetranitromethane	30 m	(100 ft)	0.3 km (0.2 mi)	0.6 km (0.4 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	1.6 km (1.0 mi)					
1541	Acetone cyanohydrin, stabilized <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	240 m	(800 ft)	0.8 km (0.5 mi)	3.0 km (1.9 mi)					
1556	MD <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)	60 m	(200 ft)	0.5 km (0.4 mi)	1.1 km (0.7 mi)					
1556	Methyl dichloroarsine	30 m	(100 ft)	0.4 km (0.2 mi)	0.9 km (0.5 mi)	120 m	(400 ft)	1.3 km (0.8 mi)	3.6 km (2.2 mi)					
1556	PD <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m	(100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)					
1560	Arsenic chloride 1560	Arsenic trichloride	30 m	(100 ft)	0.2 km (0.2 mi)	0.4 km (0.2 mi)	90 m	(300 ft)	0.9 km (0.6 mi)	1.8 km (1.1 mi)				
1569	Bromoacetone	30 m	(100 ft)	0.2 km (0.1 mi)	0.6 km (0.4 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	2.3 km (1.5 mi)					
1580	Chloropicrin	60 m	(200 ft)	0.4 km (0.3 mi)	0.8 km (0.5 mi)	210 m	(700 ft)	1.9 km (1.2 mi)	3.6 km (2.2 mi)					
1581	Chloropicrin and Methyl bromide mixture	30 m	(100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	210 m	(700 ft)	2.1 km (1.3 mi)	5.9 km (3.7 mi)					
1581	Methyl bromide and Chloropicrin mixture													
1582	Chloropicrin and Methyl chloride mixture	30 m	(100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	30 m	(100 ft)	0.4 km (0.2 mi)	1.7 km (1.1 mi)					
1582	Methyl chloride and Chloropicrin mixture													
1583	Chloropicrin mixture, n.o.s.	60 m	(200 ft)	0.4 km (0.3 mi)	0.8 km (0.5 mi)	210 m	(700 ft)	1.9 km (1.2 mi)	3.6 km (2.2 mi)					

1589	CK (when used as a weapon)	60m (200 ft)	0.7 km (0.4 mi)	2.5 km (1.5 mi)	420 m (1300 ft)	4.1 km (2.5 mi)	8.1 km (5.0 mi)	
1589	Cyanogen chloride, inhibited	60m (200 ft)	0.6 km (0.4 mi)	2.8 km (1.8 mi)	450 m (1400 ft)	4.3 km (2.7 mi)	10.1 km (6.3 mi)	
1589	Cyanogen chloride, stabilized							
1595	Dimethyl sulfate	30m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.5 km (0.3 mi)	0.8 km (0.5 mi)	
1595	Dimethyl sulphate							
1605	Ethylene dibromide	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.6 km (0.4 mi)	
1612	Hexaethyl tetraphosphate and compressed gas mixture	90m (300 ft)	0.8 km (0.5 mi)	2.7 km (1.7 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.1 km (5.1 mi)	
1613	Hydrocyanic acid, aqueous solution, with not more than 20% Hydrogen cyanide	30m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	120 m (400 ft)	0.5 km (0.3 mi)	1.3 km (0.8 mi)	
1613	Hydrogen cyanide, aqueous solution, with not more than 20% Hydrogen cyanide							
1614	Hydrogen cyanide, anhydrous, stabilized (absorbed)	30 m (100 ft)	0.2 km (0.1 mi)	0.6 km (0.4 mi)	60 m (200 ft)	0.5 km (0.3 mi)	1.7 km (1.1 mi)	
1614	Hydrogen cyanide, stabilized (absorbed)							
1647	Ethylene dibromide and Methyl bromide mixture, liquid	30m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.6 km (0.4 mi)	
1647	Methyl bromide and Ethylene dibromide mixture, liquid							
1660	Nitric oxide	30m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	60 m (200 ft)	0.6 km (0.4 mi)	2.7 km (1.7 mi)	
1660	Nitric oxide, compressed							
1670	Perchloromethyl mercaptan	30m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.2 mi)	60 m (200 ft)	0.7 km (0.4 mi)	1.2 km (0.8 mi)	
1680	Potassium cyanide (when spilled in water)	30m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	300 m (1000 ft)	1.0 km (0.6 mi)	3.9 km (2.4 mi)	
1680	Potassium cyanide, solid (when spilled in water)							

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		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1689	Sodium cyanide <i>(when spilled in water)</i>	60 m	(200 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	390 m	(1300 ft)	1.3 km (0.8 mi)	4.9 km (3.0 mi)
1689	Sodium cyanide, solid <i>(when spilled in water)</i>								
1694	CA <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	150 m	(500 ft)	1.7 km (1.0 mi)	4.2 km (2.6 mi)
1695	Chloroacetone, stabilized	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	90 m	(300 ft)	0.7 km (0.5 mi)	1.5 km (0.9 mi)
1697	CN <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	120 m	(400 ft)	1.2 km (0.7 mi)	3.3 km (2.0 mi)
1698	Adamsite <i>(when used as a weapon)</i>	60 m	(200 ft)	0.4 km (0.2 mi)	1.2 km (0.7 mi)	180 m	(600 ft)	2.3 km (1.4 mi)	5.2 km (3.2 mi)
1698	DM <i>(when used as a weapon)</i>								
1699	DA <i>(when used as a weapon)</i>	60 m	(200 ft)	0.4 km (0.2 mi)	1.2 km (0.7 mi)	180 m	(600 ft)	2.3 km (1.4 mi)	5.2 km (3.2 mi)
1716	Acetyl bromide <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	90 m	(300 ft)	0.7 km (0.5 mi)	2.3 km (1.4 mi)
1717	Acetyl chloride <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	120 m	(400 ft)	1.1 km (0.7 mi)	3.5 km (2.2 mi)
1722	Allyl chlorocarbonate	30 m	(100 ft)	0.4 km (0.2 mi)	0.8 km (0.5 mi)	210 m	(700 ft)	2.0 km (1.2 mi)	3.8 km (2.4 mi)
1722	Allyl chloroformate								
1724	Amyltrichlorosilane, stabilized <i>(when spilled in water)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.5 mi)	180 m	(600 ft)	1.8 km (1.2 mi)	5.4 km (3.4 mi)
1725	Aluminum bromide, anhydrous <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	90 m	(300 ft)	0.7 km (0.4 mi)	2.6 km (1.6 mi)
1726	Aluminum chloride, anhydrous <i>(when spilled in water)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.5 mi)	120 m	(400 ft)	1.2 km (0.7 mi)	4.5 km (2.8 mi)
1728	Amyltrichlorosilane <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60 m	(200 ft)	0.5 km (0.3 mi)	1.9 km (1.2 mi)

1732	Antimony pentafluoride <i>(when spilled in water)</i>	30m (100 ft)	0.2 km (0.1 mi)	0.9 km (0.6 mi)	180 m (600 ft)	1.9 km (1.2 mi)	5.4 km (3.4 mi)	
1741	Boron trichloride	30m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	60 m (200 ft)	0.6 km (0.4 mi)	1.7 km (1.1 mi)	
1744	Bromine Bromine, solution	60m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
1745	Bromine pentafluoride <i>(when spilled on land)</i>	30m (100 ft)	0.4 km (0.2 mi)	1.4 km (0.9 mi)	270 m (900 ft)	2.7 km (1.7 mi)	6.9 km (4.3 mi)	
1745	Bromine pentafluoride <i>(when spilled in water)</i>	30m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	240 m (800 ft)	2.2 km (1.4 mi)	6.6 km (4.1 mi)	
1746	Bromine trifluoride <i>(when spilled on land)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	180 m (600 ft)	1.8 km (1.1 mi)	4.8 km (3.0 mi)	
1746	Bromine trifluoride <i>(when spilled in water)</i>	30m (100 ft)	0.2 km (0.1 mi)	0.9 km (0.6 mi)	210 m (700 ft)	1.9 km (1.2 mi)	5.8 km (3.6 mi)	
1747	Butyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	60 m (200 ft)	0.6 km (0.4 mi)	2.0 km (1.3 mi)	
1749	Chlorine trifluoride	60m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	300 m (1000 ft)	2.8 km (1.8 mi)	8.1 km (5.1 mi)	
1752	Chloroacetyl chloride <i>(when spilled on land)</i>	30m (100 ft)	0.3 km (0.2 mi)	0.5 km (0.4 mi)	150 m (500 ft)	1.4 km (0.9 mi)	2.6 km (1.6 mi)	
1752	Chloroacetyl chloride <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60 m (200 ft)	0.4 km (0.3 mi)	1.5 km (1.0 mi)	
1754	Chlorosulfonic acid <i>(when spilled on land)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.4 km (0.3 mi)	
1754	Chlorosulfonic acid <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	90 m (300 ft)	0.7 km (0.5 mi)	2.8 km (1.7 mi)	
1754	Chlorosulfonic acid and Sulfur trioxide mixture <i>(when spilled on land)</i>	60m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	330 m (1000 ft)	2.5 km (1.5 mi)	6.5 km (4.0 mi)	
1754	Chlorosulfonic acid and Sulfur trioxide mixture <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	90 m (300 ft)	0.7 km (0.5 mi)	2.8 km (1.7 mi)	

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

ID No.		SMALL SPILLS (From a small package or small leak from a large package)						LARGE SPILLS (From a large package or from many small packages)					
		First ISOLATE in all Directions		Then PROTECT persons Downwind during-				First ISOLATE in all Directions		Then PROTECT persons Downwind during-			
				DAY Kilometers (Miles)		NIGHT Kilometers (Miles)				DAY Kilometers (Miles)		NIGHT Kilometers (Miles)	
Meters	(Feet)							Meters	(Feet)				
1754	Chlorosulphonic acid <i>(when spilled on land)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.1 km (0.1 mi)			30 m (100 ft)		0.3 km (0.2 mi)	0.4 km (0.3 mi)		
1754	Chlorosulphonic acid <i>(when spilled in water)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.6 km (0.4 mi)			90 m (300 ft)		0.7 km (0.5 mi)	2.8 km (1.7 mi)		
1754	Chlorosulphonic acid and Sulphur trioxide mixture <i>(when spilled on land)</i>	60 m (200 ft)		0.4 km (0.2 mi)	1.0 km (0.6 mi)			330 m (1000 ft)		2.5 km (1.5 mi)	6.5 km (4.0 mi)		
1754	Chlorosulphonic acid and Sulphur trioxide mixture <i>(when spilled in water)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.6 km (0.4 mi)			90 m (300 ft)		0.7 km (0.5 mi)	2.8 km (1.7 mi)		
1754	Sulfur trioxide and Chlorosulfonic acid mixture <i>(when spilled on land)</i>	60 m (200 ft)		0.4 km (0.2 mi)	1.0 km (0.6 mi)			330 m (1000 ft)		2.5 km (1.5 mi)	6.5 km (4.0 mi)		
1754	Sulfur trioxide and Chlorosulfonic acid mixture <i>(when spilled in water)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.6 km (0.4 mi)			90 m (300 ft)		0.7 km (0.5 mi)	2.8 km (1.7 mi)		
1754	Sulphur trioxide and Chlorosulphonic acid mixture <i>(when spilled on land)</i>	60 m (200 ft)		0.4 km (0.2 mi)	1.0 km (0.6 mi)			330 m (1000 ft)		2.5 km (1.5 mi)	6.5 km (4.0 mi)		
1754	Sulphur trioxide and Chlorosulphonic acid mixture <i>(when spilled in water)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.6 km (0.4 mi)			90 m (300 ft)		0.7 km (0.5 mi)	2.8 km (1.7 mi)		
1758	Chromium oxychloride <i>(when spilled in water)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.2 km (0.1 mi)			30 m (100 ft)		0.3 km (0.2 mi)	1.3 km (0.8 mi)		
1763	Cyclohexyltrichlorosilane <i>(when spilled in water)</i>	30 m (100 ft)		0.1 km (0.1 mi)	0.3 km (0.2 mi)			90 m (300 ft)		0.8 km (0.5 mi)	3.0 km (1.9 mi)		
1766	Dichlorophenyltrichlorosilane <i>(when spilled in water)</i>	30 m (100 ft)		0.2 km (0.1 mi)	0.9 km (0.6 mi)			210 m (700 ft)		2.1 km (1.3 mi)	5.7 km (3.6 mi)		

1767	Diethylchlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60m (200 ft)	0.4 km (0.3 mi)	1.3 km (0.8 mi)	
1769	Diphenylchlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	
1771	Dodecyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.2 mi)	
1777	Fluorosulfonic acid <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	120 m (400 ft)	1.0 km (0.6 mi)	3.4 km (2.1 mi)	
1777	Fluorosulphonic acid <i>(when spilled in water)</i>							
1784	Hexyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	120 m (400 ft)	1.0 km (0.7 mi)	3.8 km (2.4 mi)	
1799	Nonyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	60m (200 ft)	0.6 km (0.4 mi)	2.5 km (1.6 mi)	
1800	Octadecyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	90m (300 ft)	0.8 km (0.5 mi)	2.9 km (1.8 mi)	
1801	Octyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	60m (200 ft)	0.6 km (0.4 mi)	2.5 km (1.6 mi)	
1804	Phenyltrichlorosilane <i>(when spilled in water)</i>	30m (100 ft)	0.2 km (0.1 mi)	0.9 km (0.6 mi)	240 m (800 ft)	2.2 km (1.4 mi)	6.4 km (4.0 mi)	
1806	Phosphorus pentachloride <i>(when spilled in water)</i>	30m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	90 m (300 ft)	0.8 km (0.5 mi)	3.1 km (1.9 mi)	
1809	Phosphorus trichloride <i>(when spilled on land)</i>	30m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.3 mi)	150 m (500 ft)	1.5 km (1.0 mi)	3.5 km (2.2 mi)	
1809	Phosphorus trichloride <i>(when spilled in water)</i>	30m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	180 m (600 ft)	1.6 km (1.0 mi)	4.8 km (3.0 mi)	
1810	Phosphorus oxychloride <i>(when spilled on land)</i>	30m (100 ft)	0.2 km (0.2 mi)	0.4 km (0.3 mi)	120 m (400 ft)	1.0 km (0.7 mi)	2.2 km (1.4 mi)	
1810	Phosphorus oxychloride <i>(when spilled in water)</i>	30m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	240 m (800 ft)	2.3 km (1.5 mi)	6.3 km (3.9 mi)	

## **TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES**

1834	Sulfuryl chloride <i>(when spilled on land)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.7 km (0.5 mi)	
1834	Sulfuryl chloride <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.2 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.9 km (1.8 mi)	
1834	Sulphuryl chloride <i>(when spilled on land)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.7 km (0.5 mi)	
1834	Sulphuryl chloride <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.2 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.9 km (1.8 mi)	
1836	Thionyl chloride <i>(when spilled on land)</i>	30 m (100 ft)	0.3 km (0.2 mi)	0.8 km (0.5 mi)	90 m (300 ft)	1.0 km (0.6 mi)	2.2 km (1.4 mi)	
1836	Thionyl chloride <i>(when spilled in water)</i>	60 m (200 ft)	0.4 km (0.2 mi)	1.7 km (1.1 mi)	450 m (1500 ft)	4.5 km (2.8 mi)	10.5 km (6.5 mi)	
1838	Titanium tetrachloride <i>(when spilled on land)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.5 km (0.3 mi)	0.8 km (0.5 mi)	
1838	Titanium tetrachloride <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	120 m (400 ft)	1.1 km (0.7 mi)	3.7 km (2.3 mi)	
1859 1859	Silicon tetrafluoride Silicon tetrafluoride, compressed	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.5 km (0.3 mi)	0.8 km (0.5 mi)	
1892	ED <i>(when used as a weapon)</i>	30 m (100 ft)	0.4 km (0.2 mi)	0.9 km (0.5 mi)	120 m (400 ft)	1.3 km (0.8 mi)	2.6 km (1.6 mi)	
1892	Ethyldichloroarsine	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.2 mi)	60 m (200 ft)	0.6 km (0.4 mi)	1.1 km (0.7 mi)	
1898	Acetyl iodide <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	60 m (200 ft)	0.6 km (0.4 mi)	1.8 km (1.1 mi)	
1911 1911	Diborane Diborane, compressed	60 m (200 ft)	0.4 km (0.2 mi)	1.6 km (1.0 mi)	180 m (600 ft)	1.8 km (1.1 mi)	5.4 km (3.4 mi)	
1923	Calcium dithionite <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.4 km (0.3 mi)	1.3 km (0.8 mi)	
1923	Calcium hydrosulfite <i>(when spilled in water)</i>							
1923	Calcium hydrosulphite <i>(when spilled in water)</i>							

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1931	Zinc dithionite <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m	(200 ft)	0.4 km (0.3 mi)	1.3 km (0.8 mi)
1931	Zinc hydrosulfite <i>(when spilled in water)</i>								
1931	Zinc hydrosulphite <i>(when spilled in water)</i>								
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	120 m	(400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m	(3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m	(1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)	120 m	(400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m	(3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m	(1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)

1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
1953	Compressed gas, poisonous, flammable, n.o.s.	120 m (400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m (3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)	
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)							
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
1953	Compressed gas, toxic, flammable, n.o.s.	120 m (400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m (3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)	
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)							
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1953	Liquefied gas, flammable, poisonous, n.o.s.	120 m	(400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m (3000 ft)		8.7 km (5.4 mi)	11.0+ km (7.0+ mi)
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)								
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m (1400 ft)		4.0 km (2.5 mi)	10.8 km (6.7 mi)
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)		2.4 km (1.5 mi)	6.4 km (4.0 mi)
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)		0.8 km (0.5 mi)	2.4 km (1.5 mi)
1953	Liquefied gas, flammable, toxic, n.o.s.	120 m	(400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m (3000 ft)		8.7 km (5.4 mi)	11.0+ km (7.0+ mi)
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)								
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m (1400 ft)		4.0 km (2.5 mi)	10.8 km (6.7 mi)
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)		2.4 km (1.5 mi)	6.4 km (4.0 mi)
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)		0.8 km (0.5 mi)	2.4 km (1.5 mi)
1955	Compressed gas, poisonous, n.o.s.	600 m	(2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)		11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A)								

1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m (2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)
1955	Compressed gas, toxic, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone A)						
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m (2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)
1955	Liquefied gas, poisonous, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)						
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m (2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)
1955	Liquefied gas, toxic, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)						
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m (2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m	(400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)
1955	Organic phosphate compound mixed with compressed gas	120 m (400 ft)	1.0 km (0.7 mi)	3.4 km (2.1 mi)		450 m (1500 ft)	4.4 km (2.7 mi)	9.6 km (6.0 mi)	
1955	Organic phosphate mixed with compressed gas								
1955	Organic phosphorus compound mixed with compressed gas								
1967	Insecticide gas, poisonous, n.o.s.	120 m (400 ft)	1.0 km (0.7 mi)	3.4 km (2.1 mi)		450 m (1500 ft)	4.4 km (2.7 mi)	9.6 km (6.0 mi)	
1967	Insecticide gas, toxic, n.o.s.								
1967	Parathion and compressed gas mixture								
1975	Dinitrogen tetroxide and Nitric oxide mixture	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)		60 m (200 ft)	0.6 km (0.4 mi)	2.7 km (1.7 mi)	
1975	Nitric oxide and Dinitrogen tetroxide mixture								
1975	Nitric oxide and Nitrogen dioxide mixture								
1975	Nitric oxide and Nitrogen tetroxide mixture								
1975	Nitrogen dioxide and Nitric oxide mixture								
1975	Nitrogen tetroxide and Nitric oxide mixture								
1994	Iron pentacarbonyl	30 m	(100 ft)	0.3 km (0.2 mi)	0.6 km (0.4 mi)	150 m	(500 ft)	1.6 km (1.0 mi)	3.0 km (1.9 mi)
2004	Magnesium diamide (when spilled in water)	30 m	(100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	90 m	(300 ft)	0.7 km (0.4 mi)	2.9 km (1.8 mi)

2011	Magnesium phosphide <i>(when spilled in water)</i>	60 m (200 ft)	0.5 km (0.4 mi)	2.4 km (1.5 mi)	800 m (2500 ft)	7.5 km (4.7 mi)	11.0+ km (7.0+ mi)	
2012	Potassium phosphide <i>(when spilled in water)</i>	60 m (200 ft)	0.4 km (0.3 mi)	1.7 km (1.1 mi)	500 m (1600 ft)	4.7 km (2.9 mi)	11.0+ km (7.0+ mi)	
2013	Strontium phosphide <i>(when spilled in water)</i>	60 m (200 ft)	0.4 km (0.2 mi)	1.7 km (1.1 mi)	500 m (1600 ft)	4.6 km (2.9 mi)	11.0+ km (7.0+ mi)	
2032	Nitric acid, fuming 2032 Nitric acid, red fuming	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	60 m (200 ft)	0.6 km (0.4 mi)	1.2 km (0.8 mi)	
2186	Hydrogen chloride, refrigerated liquid	30 m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	360 m (1200 ft)	3.6 km (2.2 mi)	10.4 km (6.5 mi)	
2188	Arsine	60 m (200 ft)	0.6 km (0.4 mi)	3.0 km (1.9 mi)	420 m (1400 ft)	4.1 km (2.6 mi)	9.5 km (5.9 mi)	
2188	SA <i>(when used as a weapon)</i>	60 m (200 ft)	0.9 km (0.5 mi)	2.5 km (1.5 mi)	420 m (1300 ft)	4.1 km (2.5 mi)	8.1 km (5.0 mi)	
2189	Dichlorosilane	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
2190	Oxygen difluoride 2190 Oxygen difluoride, compressed	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2191	Sulfuryl fluoride 2191 Sulphuryl fluoride	30 m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)	
2192	Germane	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	90 m (300 ft)	0.8 km (0.5 mi)	3.0 km (1.9 mi)	
2194	Selenium hexafluoride	90 m (300 ft)	0.7 km (0.5 mi)	3.2 km (2.0 mi)	450 m (1500 ft)	4.4 km (2.7 mi)	9.0 km (5.6 mi)	
2195	Tellurium hexafluoride	90 m (300 ft)	1.0 km (0.6 mi)	4.0 km (2.5 mi)	600 m (2000 ft)	6.0 km (3.7 mi)	11.0+ km (7.0+ mi)	
2196	Tungsten hexafluoride	30 m (100 ft)	0.2 km (0.1 mi)	1.1 km (0.7 mi)	120 m (400 ft)	1.0 km (0.6 mi)	3.7 km (2.3 mi)	
2197	Hydrogen iodide, anhydrous	30 m (100 ft)	0.1 km (0.1 mi)	0.4 km (0.2 mi)	120 m (400 ft)	1.3 km (0.8 mi)	3.7 km (2.3 mi)	
2198	Phosphorus pentafluoride 2198 Phosphorus pentafluoride, compressed	30 m (100 ft)	0.3 km (0.2 mi)	1.6 km (1.0 mi)	180 m (600 ft)	1.6 km (1.0 mi)	4.6 km (2.9 mi)	
2199	Phosphine	60 m (200 ft)	0.7 km (0.4 mi)	3.1 km (1.9 mi)	450 m (1400 ft)	4.3 km (2.7 mi)	9.6 km (6.0 mi)	
2202	Hydrogen selenide, anhydrous	120 m (400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m (3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)	

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ID No.		SMALL SPILLS (From a small package or small leak from a large package)					LARGE SPILLS (From a large package or from many small packages)				
		First ISOLATE in all Directions		Then PROTECT persons Downwind during-			First ISOLATE in all Directions		Then PROTECT persons Downwind during-		
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)		
2204	Carbonyl sulfide	30 m	(100 ft)	0.1 km (0.1 mi)	0.6 km (0.4 mi)	300 m	(1000 ft)	3.0 km (1.9 mi)	8.1 km (5.0 mi)		
2204	Carbonyl sulphide										
2232	Chloroacetaldehyde	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	1.6 km (1.0 mi)		
2232	2-Chloroethanal										
2334	Allylamine	30 m	(100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	120 m	(400 ft)	1.1 km (0.7 mi)	2.5 km (1.5 mi)		
2337	Phenyl mercapton	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m	(200 ft)	0.4 km (0.2 mi)	0.6 km (0.4 mi)		
2382	1,2-Dimethylhydrazine	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60 m	(200 ft)	0.6 km (0.4 mi)	1.2 km (0.8 mi)		
2382	Dimethylhydrazine, symmetrical										
2407	Isopropyl chloroformate	30 m	(100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	90 m	(300 ft)	0.7 km (0.5 mi)	1.5 km (0.9 mi)		
2417	Carbonyl fluoride	30 m	(100 ft)	0.2 km (0.1 mi)	1.1 km (0.7 mi)	90 m	(300 ft)	1.0 km (0.6 mi)	3.6 km (2.3 mi)		
2417	Carbonyl fluoride, compressed										
2418	Sulfur tetrafluoride	60 m	(200 ft)	0.7 km (0.4 mi)	3.2 km (2.0 mi)	500 m	(1600 ft)	4.7 km (2.9 mi)	10.6 km (6.6 mi)		
2418	Sulphur tetrafluoride										
2420	Hexafluoroacetone	30 m	(100 ft)	0.3 km (0.2 mi)	1.3 km (0.8 mi)	800 m	(2500 ft)	7.2 km (4.5 mi)	11.0+ km (7.0+ mi)		
2421	Nitrogen trioxide	30 m	(100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	60 m	(200 ft)	0.4 km (0.3 mi)	1.9 km (1.2 mi)		
2437	Methylphenyldichlorosilane <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m	(100 ft)	0.3 km (0.2 mi)	1.1 km (0.7 mi)		
2438	Trimethylacetyl chloride	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60 m	(200 ft)	0.5 km (0.3 mi)	0.8 km (0.5 mi)		
2442	Trichloroacetyl chloride	30 m	(100 ft)	0.2 km (0.2 mi)	0.8 km (0.5 mi)	120 m	(400 ft)	1.2 km (0.8 mi)	2.2 km (1.4 mi)		
2474	Thiophosgene	90 m	(300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	360 m	(1200 ft)	3.6 km (2.3 mi)	6.8 km (4.2 mi)		
2477	Methyl isothiocyanate	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	60 m	(200 ft)	0.5 km (0.3 mi)	1.0 km (0.7 mi)		
2480	Methyl isocyanate	60 m	(200 ft)	0.5 km (0.3 mi)	1.9 km (1.2 mi)	600 m	(1800 ft)	5.4 km (3.3 mi)	11.0+ km (7.0+ mi)		

2481	Ethyl isocyanate	60 m (200 ft)	0.6 km (0.4 mi)	2.1 km (1.3 mi)	800 m (2500 ft)	6.2 km (3.9 mi)	11.0+ km (7.0+ mi)		
2482	n-Propyl isocyanate	120 m (400 ft)	1.0 km (0.7 mi)	2.5 km (1.6 mi)	1000 m (3000 ft)	9.0 km (5.6 mi)	11.0+ km (7.0+ mi)		
2483	Isopropyl isocyanate	120 m (400 ft)	1.1 km (0.7 mi)	2.8 km (1.8 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)		
2484	tert-Butyl isocyanate	90 m (300 ft)	1.0 km (0.6 mi)	2.4 km (1.5 mi)	1000 m (3000 ft)	8.4 km (5.2 mi)	11.0+ km (7.0+ mi)		
2485	n-Butyl isocyanate	90 m (300 ft)	0.7 km (0.5 mi)	1.6 km (1.0 mi)	500 m (1600 ft)	4.7 km (2.9 mi)	8.0 km (5.0 mi)		
2486	Isobutyl isocyanate	90 m (300 ft)	0.7 km (0.5 mi)	1.6 km (1.0 mi)	500 m (1600 ft)	4.7 km (3.0 mi)	7.8 km (4.8 mi)		
2487	Phenyl isocyanate	30 m (100 ft)	0.4 km (0.2 mi)	0.5 km (0.3 mi)	180 m (600 ft)	1.6 km (1.0 mi)	2.9 km (1.8 mi)		
2488	Cyclohexyl isocyanate	30 m (100 ft)	0.2 km (0.2 mi)	0.3 km (0.2 mi)	90 m (300 ft)	0.9 km (0.6 mi)	1.6 km (1.0 mi)		
2495	Iodine pentafluoride <i>(when spilled in water)</i>	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	210 m (700 ft)	1.9 km (1.2 mi)	5.7 km (3.6 mi)		
2521	Diketene, inhibited	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)		
2521	Diketene, stabilized								
2534	Methylchlorosilane	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)		
2548	Chlorine pentafluoride	30 m (100 ft)	0.3 km (0.2 mi)	1.7 km (1.1 mi)	240 m (800 ft)	2.4 km (1.5 mi)	7.4 km (4.6 mi)		
2600	Carbon monoxide and Hydrogen mixture	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	90 m (300 ft)	0.7 km (0.4 mi)	2.4 km (1.5 mi)		
2600	Carbon monoxide and Hydrogen mixture, compressed								
2600	Hydrogen and Carbon monoxide mixture								
2600	Hydrogen and Carbon monoxide mixture, compressed								
2605	Methoxymethyl isocyanate	60 m (200 ft)	0.4 km (0.2 mi)	0.6 km (0.4 mi)	180 m (600 ft)	1.6 km (1.0 mi)	2.6 km (1.6 mi)		
2606	Methyl orthosilicate	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.4 km (0.3 mi)	0.7 km (0.4 mi)		
2644	Methyl iodide	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.8 km (0.5 mi)		
2646	Hexachlorocyclopentadiene	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.4 km (0.3 mi)	0.5 km (0.3 mi)		
2668	Chloroacetonitrile	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)		

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ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-			First ISOLATE in all Directions		Then PROTECT persons Downwind during-		
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	
2676	Stibine	60 m	(200 ft)	0.4 km (0.3 mi)	2.2 km (1.4 mi)		270 m	(900 ft)	2.8 km (1.7 mi)	7.5 km (4.7 mi)	
2691	Phosphorus pentabromide <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.7 km (0.4 mi)		90 m	(300 ft)	0.7 km (0.4 mi)	2.8 km (1.7 mi)	
2692	Boron tribromide <i>(when spilled on land)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)		60 m	(200 ft)	0.5 km (0.4 mi)	1.3 km (0.8 mi)	
2692	Boron tribromide <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)		90 m	(300 ft)	0.7 km (0.5 mi)	2.6 km (1.6 mi)	
2740	n-Propyl chloroformate	30 m	(100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)		90 m	(300 ft)	0.7 km (0.5 mi)	1.5 km (0.9 mi)	
2742	sec-Butyl chloroformate	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)		60 m	(200 ft)	0.4 km (0.3 mi)	0.6 km (0.4 mi)	
2742	Isobutyl chloroformate	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)		30 m	(100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)	
2743	n-Butyl chloroformate	30 m	(100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)		30 m	(100 ft)	0.4 km (0.2 mi)	0.5 km (0.3 mi)	
2806	Lithium nitride <i>(when spilled in water)</i>	30 m	(100 ft)	0.1 km (0.1 mi)	0.4 km (0.2 mi)		60 m	(200 ft)	0.6 km (0.4 mi)	2.6 km (1.6 mi)	
2810	Buzz <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)		60 m	(200 ft)	0.5 km (0.3 mi)	2.0 km (1.2 mi)	
2810	BZ <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)		60 m	(200 ft)	0.5 km (0.3 mi)	2.0 km (1.2 mi)	
2810	CS <i>(when used as a weapon)</i>	60 m	(200 ft)	0.4 km (0.2 mi)	1.2 km (0.7 mi)		240 m	(800 ft)	2.6 km (1.6 mi)	5.7 km (3.5 mi)	
2810	DC <i>(when used as a weapon)</i>	30 m	(100 ft)	0.2 km (0.1 mi)	0.9 km (0.5 mi)		240 m	(800 ft)	2.3 km (1.4 mi)	5.4 km (3.3 mi)	
2810	GA <i>(when used as a weapon)</i>	30 m	(100 ft)	0.4 km (0.2 mi)	0.7 km (0.4 mi)		150 m	(500 ft)	1.7 km (1.0 mi)	3.1 km (1.9 mi)	
2810	GB <i>(when used as a weapon)</i>	150 m	(500 ft)	1.7 km (1.0 mi)	3.4 km (2.1 mi)		1000 m	(3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2810	GD <i>(when used as a weapon)</i>	90 m	(300 ft)	0.9 km (0.5 mi)	1.8 km (1.1 mi)		800 m	(2500 ft)	6.8 km (4.2 mi)	10.5 km (6.5 mi)	
2810	GF <i>(when used as a weapon)</i>	30 m	(100 ft)	0.4 km (0.2 mi)	0.7 km (0.4 mi)		240 m	(800 ft)	2.3 km (1.4 mi)	5.2 km (3.2 mi)	

2810	H (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	60 m (200 ft)	0.7 km (0.4 mi)	1.2 km (0.7 mi)	
2810	HD (when used as a weapon)							
2810	HL (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)	90 m (300 ft)	1.0 km (0.6 mi)	1.8 km (1.1 mi)	
2810	HN-1 (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	60 m (200 ft)	0.7 km (0.4 mi)	1.3 km (0.8 mi)	
2810	HN-2 (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	60 m (200 ft)	0.5 km (0.3 mi)	1.2 km (0.7 mi)	
2810	HN-3 (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)	
2810	L (Lewisite) (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)	90 m (300 ft)	1.0 km (0.6 mi)	1.8 km (1.1 mi)	
2810	Lewisite (when used as a weapon)							
2810	Mustard (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)	
2810	Mustard Lewisite (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)	90 m (300 ft)	1.0 km (0.6 mi)	1.8 km (1.1 mi)	
2810	Poisonous liquid, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2810	Poisonous liquid, n.o.s. (Inhalation Hazard Zone A)							
2810	Poisonous liquid, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
2810	Poisonous liquid, organic, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.3 km (2.1 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2810	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone A)							
2810	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	270 m (900 ft)	2.5 km (1.6 mi)	5.6 km (3.5 mi)	
2810	Sarin (when used as a weapon)	150 m (500 ft)	1.7 km (1.0 mi)	3.4 km (2.1 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2810	Soman (when used as a weapon)	90 m (300 ft)	0.9 km (0.5 mi)	1.8 km (1.1 mi)	800 m (2500 ft)	6.8 km (4.2 mi)	10.5 km (6.5 mi)	
2810	Tabun (when used as a weapon)	30 m (100 ft)	0.4 km (0.2 mi)	0.7 km (0.4 mi)	150 m (500 ft)	1.7 km (1.0 mi)	3.1 km (1.9 mi)	
2810	Thickened GD (when used as a weapon)	90 m (300 ft)	0.9 km (0.5 mi)	1.8 km (1.1 mi)	800 m (2500 ft)	6.8 km (4.2 mi)	10.5 km (6.5 mi)	

## **TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES**

		SMALL SPILLS (From a small package or small leak from a large package)					LARGE SPILLS (From a large package or from many small packages)				
ID No.	NAME OF MATERIAL	First <b>ISOLATE</b> in all Directions		Then <b>PROTECT</b> persons Downwind during-			First <b>ISOLATE</b> in all Directions		Then <b>PROTECT</b> persons Downwind during-		
		Meters	(Feet)	DAY		NIGHT		Meters	(Feet)	DAY	
				Kilometers	(Miles)	Kilometers	(Miles)			Kilometers	(Miles)
2810	Toxic liquid, n.o.s.	150 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)	1000 m	(3000 ft)	11.0+ km	(7.0+ mi)
2810	Toxic liquid, n.o.s. (Inhalation Hazard Zone A)										11.0+ km (7.0+ mi)
2810	Toxic liquid, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.8 km	(1.1 mi)	330 m	(1100 ft)	3.3 km	(2.1 mi)
2810	Toxic liquid, organic, n.o.s.	150 m	(500 ft)	1.3 km	(0.8 mi)	3.3 km	(2.1 mi)	1000 m	(3000 ft)	11.0+ km	(7.0+ mi)
2810	Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone A)										11.0+ km (7.0+ mi)
2810	Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.4 km	(0.2 mi)	1.0 km	(0.6 mi)	270 m	(900 ft)	2.5 km	(1.6 mi)
2810	VX (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.7 km	(0.4 mi)
2811	CX (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	90 m	(300 ft)	1.0 km	(0.6 mi)
2826	Ethyl chlorothioformate	30 m	(100 ft)	0.1 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.4 mi)
2845	Ethyl phosphorous dichloride, anhydrous	30 m	(100 ft)	0.4 km	(0.2 mi)	0.8 km	(0.5 mi)	210 m	(700 ft)	1.9 km	(1.2 mi)
2845	Methyl phosphorous dichloride	60 m	(200 ft)	0.4 km	(0.3 mi)	1.2 km	(0.8 mi)	330 m	(1000 ft)	3.1 km	(1.9 mi)
2901	Bromine chloride	30 m	(100 ft)	0.2 km	(0.2 mi)	0.9 km	(0.6 mi)	240 m	(800 ft)	2.4 km	(1.5 mi)
2927	Ethyl phosphonothioic dichloride, anhydrous	30 m	(100 ft)	0.1 km	(0.1 mi)	0.1 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)
2927	Ethyl phosphorodichloridate	30 m	(100 ft)	0.1 km	(0.1 mi)	0.1 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)
2927	Poisonous liquid, corrosive, n.o.s.	90 m	(300 ft)	0.8 km	(0.5 mi)	2.4 km	(1.5 mi)	800 m	(2500 ft)	6.2 km	(3.9 mi)
2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone A)										11.0+ km (7.0+ mi)

2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone B)	60m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
2927	Toxic liquid, corrosive, organic, n.o.s.	60 m (200 ft)	0.6 km (0.4 mi)	2.1 km (1.3 mi)	800 m (2500 ft)	6.2 km (3.9 mi)	11.0+ km (7.0+ mi)	
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone A)							
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.4 km (0.2 mi)	0.5 km (0.4 mi)	180 m (600 ft)	1.6 km (1.0 mi)	2.9 km (1.8 mi)	
2929	Poisonous liquid, flammable, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone A)							
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	270 m (900 ft)	2.5 km (1.6 mi)	5.6 km (3.5 mi)	
2929	Poisonous liquid, flammable, organic, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.3 km (2.1 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)							
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	270 m (900 ft)	2.5 km (1.6 mi)	5.6 km (3.5 mi)	
2929	Toxic liquid, flammable, n.o.s. Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2929	Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	270 m (900 ft)	2.5 km (1.6 mi)	5.6 km (3.5 mi)	
2929	Toxic liquid, flammable, organic, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.3 km (2.1 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
2929	Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)							

## **TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES**

2986	Chlorosilanes, corrosive, flammable, n.o.s. <b>(when spilled in water)</b>	30m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	150 m (500 ft)	1.3 km (0.8 mi)	3.9 km (2.4 mi)	
2986	Chlorosilanes, n.o.s. <b>(when spilled in water)</b>							
2987	Chlorosilanes, corrosive, n.o.s. <b>(when spilled in water)</b>	30 m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	150 m (500 ft)	1.3 km (0.8 mi)	3.9 km (2.4 mi)	
2987	Chlorosilanes, n.o.s. <b>(when spilled in water)</b>							
2988	Chlorosilanes, n.o.s. <b>(when spilled in water)</b>	30 m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	150 m (500 ft)	1.3 km (0.8 mi)	3.9 km (2.4 mi)	
2988	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s. <b>(when spilled in water)</b>							
3023	2-Methyl-2-heptanethiol	30m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	60 m (200 ft)	0.5 km (0.3 mi)	0.8 km (0.5 mi)	
3023	tert-Octyl mercaptan							
3048	Aluminum phosphide pesticide <b>(when spilled in water)</b>	90m (300 ft)	0.6 km (0.4 mi)	2.7 km (1.7 mi)	1000 m (3000 ft)	9.0 km (5.6 mi)	11.0+ km (7.0+ mi)	
3049	Metal alkyl halides, n.o.s. <b>(when spilled in water)</b>	30m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	1.3 km (0.8 mi)	
3049	Metal alkyl halides, water-reactive, n.o.s. <b>(when spilled in water)</b>							
3049	Metal aryl halides, n.o.s. <b>(when spilled in water)</b>							
3049	Metal aryl halides, water-reactive, n.o.s. <b>(when spilled in water)</b>							
3052	Aluminum alkyl halides <b>(when spilled in water)</b>	30m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	1.3 km (0.8 mi)	
3052	Aluminum alkyl halides, liquid <b>(when spilled in water)</b>							
3052	Aluminum alkyl halides, solid <b>(when spilled in water)</b>							
3057	Trifluoroacetyl chloride	30m (100 ft)	0.3 km (0.2 mi)	1.3 km (0.8 mi)	800 m (2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)	

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
3079	Methacrylonitrile, inhibited	30 m	(100 ft)	0.1 km	(0.1 mi)	0.3 km	(02 mi)	90 m	(300 ft)
3079	Methacrylonitrile, stabilized							0.8 km	(0.5 mi)
3083	Perchloryl fluoride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	360 m	(1200 ft)
3122	Poisonous liquid, oxidizing, n.o.s.	150 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)	1000 m	(3000 ft)
3122	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)							11.0+ km	(7.0+ mi)
3122	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.4 km	(0.2 mi)	1.4 km	(0.9 mi)	270 m	(900 ft)
3122	Toxic liquid, oxidizing, n.o.s.	150 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)	1000 m	(3000 ft)
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)							11.0+ km	(7.0+ mi)
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.4 km	(0.2 mi)	1.4 km	(0.9 mi)	270 m	(900 ft)
3123	Poisonous liquid, water-reactive, n.o.s.	150 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)	1000 m	(3000 ft)
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)							11.0+ km	(7.0+ mi)
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.8 km	(1.1 mi)	330 m	(1100 ft)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s.	150 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)	1000 m	(3000 ft)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)							11.0+ km	(7.0+ mi)

3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	60m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3123	Toxic liquid, water-reactive, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3123	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)							
3123	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s.	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)							
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3160	Liquefied gas, poisonous, flammable, n.o.s.	120 m (400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m (3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)	
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)							
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	

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		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
3160	Liquefied gas, toxic, flammable, n.o.s.	120 m	(400 ft)	1.2 km (0.8 mi)	5.1 km (3.2 mi)	1000 m	(3000 ft)	8.7 km (5.4 mi)	11.0+ km (7.0+ mi)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)								
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m	(1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m	(300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)
3162	Liquefied gas, poisonous, n.o.s.	600 m	(2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m	(3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)								
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m	(2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m	(400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)
3162	Liquefied gas, toxic, n.o.s.	600 m	(2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m	(3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)								
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m	(2500 ft)	7.8 km (4.9 mi)	11.0+ km (7.0+ mi)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)

3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)	
3246	Methanesulfonyl chloride	60 m (200 ft)	0.4 km (0.2 mi)	0.5 km (0.4 mi)	150 m (500 ft)	1.6 km (1.0 mi)	2.6 km (1.6 mi)	
3246	Methanesulphonyl chloride							
3275	Nitriles, poisonous, flammable, n.o.s.	30 m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	90 m (300 ft)	0.8 km (0.5 mi)	1.6 km (1.0 mi)	
3275	Nitriles, toxic, flammable, n.o.s.							
3276	Nitriles, poisonous, liquid, n.o.s.	30 m (100 ft)	0.1 km (0.1 mi)	0.3 km (0.2 mi)	90 m (300 ft)	0.8 km (0.5 mi)	1.6 km (1.0 mi)	
3276	Nitriles, poisonous, n.o.s.							
3276	Nitriles, toxic, liquid, n.o.s.							
3276	Nitriles, toxic, n.o.s.							
3278	Organophosphorus compound, poisonous, liquid, n.o.s.	60 m (200 ft)	0.4 km (0.3 mi)	1.2 km (0.8 mi)	330 m (1000 ft)	3.1 km (1.9 mi)	5.9 km (3.7 mi)	
3278	Organophosphorus compound, poisonous, n.o.s.							
3278	Organophosphorus compound, toxic, liquid, n.o.s.							
3278	Organophosphorus compound, toxic, n.o.s.							
3279	Organophosphorus compound, poisonous, flammable, n.o.s.	60 m (200 ft)	0.4 km (0.3 mi)	1.2 km (0.8 mi)	330 m (1000 ft)	3.1 km (1.9 mi)	5.9 km (3.7 mi)	
3279	Organophosphorus compound, toxic, flammable, n.o.s.							
3280	Organoarsenic compound, liquid, n.o.s.	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	210 m (700 ft)	2.1 km (1.3 mi)	5.1 km (3.2 mi)	
3280	Organoarsenic compound, n.o.s.							
3281	Metal carbonyls, liquid, n.o.s.	90 m (300 ft)	0.8 km (0.5 mi)	3.5 km (2.2 mi)	500 m (1600 ft)	4.7 km (2.9 mi)	9.8 km (6.1 mi)	
3281	Metal carbonyls, n.o.s.							
3287	Poisonous liquid, inorganic, n.o.s.	90 m (300 ft)	0.9 km (0.6 mi)	3.5 km (2.2 mi)	600 m (1800 ft)	5.3 km (3.3 mi)	11.0 km (6.9 mi)	
3287	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)							
3287	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

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ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-			First ISOLATE in all Directions		Then PROTECT persons Downwind during-		
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	
3287	Toxic liquid, inorganic, n.o.s.	90 m	(300 ft)	0.9 km (0.6 mi)	3.5 km (2.2 mi)		600 m	(1800 ft)	5.3 km (3.3 mi)	11.0 km (6.9 mi)	
3287	Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)										
3287	Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)		330 m	(1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3289	Poisonous liquid, corrosive, inorganic, n.o.s.	90 m	(300 ft)	0.9 km (0.6 mi)	3.5 km (2.2 mi)		600 m	(1800 ft)	5.3 km (3.3 mi)	11.0 km (6.9 mi)	
3289	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)										
3289	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)		330m	(1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3289	Toxic liquid, corrosive, inorganic, n.o.s.	90 m	(300 ft)	0.9 km (0.6 mi)	3.5 km (2.2 mi)		600 m	(1800 ft)	5.3 km (3.3 mi)	11.0 km (6.9 mi)	
3289	Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)										
3289	Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)		330m	(1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3294	Hydrogen cyanide, solution in alcohol, with not more than 45% Hydrogen cyanide	30 m	(100 ft)	0.2 km (0.1 mi)	0.4 km (0.2 mi)		210 m	(700 ft)	0.7 km (0.4 mi)	2.1 km (1.3 mi)	

3300	Carbon dioxide and Ethylene oxide mixture, with more than 87% Ethylene oxide	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
3300	Ethylene oxide and Carbon dioxide mixture, with more than 87% Ethylene oxide							
3303	Compressed gas, poisonous, oxidizing, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)							
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.8 km (5.5 mi)	
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)	
3303	Compressed gas, toxic, oxidizing, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)							
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.8 km (5.5 mi)	
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)	

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

		SMALL SPILLS (From a small package or small leak from a large package)				LARGE SPILLS (From a large package or from many small packages)			
ID No.	NAME OF MATERIAL	First ISOLATE in all Directions		Then PROTECT persons Downwind during-		First ISOLATE in all Directions		Then PROTECT persons Downwind during-	
		Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)	Meters	(Feet)	DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
3304	Compressed gas, poisonous, corrosive, n.o.s.	600 m	(2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m	(3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)								
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m	(2500 ft)	7.2 km (4.5 mi)	11.0+ km (7.0+ mi)
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	60 m	(200 ft)	0.6 km (0.4 mi)	2.2 km (1.4 mi)
3304	Compressed gas, toxic, corrosive, n.o.s.	600 m	(2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m	(3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)								
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m	(2500 ft)	7.2 km (4.5 mi)	11.0+ km (7.0+ mi)
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m	(800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	60 m	(200 ft)	0.6 km (0.4 mi)	2.2 km (1.4 mi)

3305	Compressed gas, poisonous, flammable, corrosive, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)							
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
3305	Compressed gas, toxic, flammable, corrosive, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)							
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)							

## TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.8 km (5.5 mi)	
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)	
3307	Liquefied gas, toxic, oxidizing, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)							
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.8 km (5.5 mi)	
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	120 m (400 ft)	1.2 km (0.8 mi)	3.8 km (2.4 mi)	
3308	Liquefied gas, poisonous, corrosive, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)							
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	60m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	800 m (2500 ft)	7.2 km (4.5 mi)	11.0+ km (7.0+ mi)	
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	30m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	30m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	60 m (200 ft)	0.6 km (0.4 mi)	2.2 km (1.4 mi)	

## TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.1 mi)	1.0 km (0.6 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)							
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.8 km (5.5 mi)	
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.3 km (0.2 mi)	1.2 km (0.8 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	60 m (200 ft)	0.6 km (0.4 mi)	2.2 km (1.4 mi)	
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	600 m (2000 ft)	5.9 km (3.7 mi)	11.0+ km (7.0+ mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)							
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.3 mi)	2.0 km (1.3 mi)	360 m (1200 ft)	3.5 km (2.2 mi)	8.8 km (5.5 mi)	

## TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m (100 ft)	0.2 km (0.2 mi)	1.2 km (0.8 mi)	420 m (1400 ft)	4.0 km (2.5 mi)	10.8 km (6.7 mi)	
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m (100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	240 m (800 ft)	2.4 km (1.5 mi)	6.4 km (4.0 mi)	
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	90 m (300 ft)	0.8 km (0.5 mi)	2.4 km (1.5 mi)	
3381	Poisonous by inhalation liquid, n.o.s. (Inhalation Hazard Zone A)	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3381	Toxic by inhalation liquid, n.o.s. (Inhalation Hazard Zone A)							
3382	Poisonous by inhalation liquid, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	330 m (1100 ft)	3.3 km (2.1 mi)	7.3 km (4.6 mi)	
3382	Toxic by inhalation liquid, n.o.s. (Inhalation Hazard Zone B)							
3383	Poisonous by inhalation liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3383	Toxic by inhalation liquid, flammable, n.o.s. (Inhalation Hazard Zone A)							
3384	Poisonous by inhalation liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	60 m (200 ft)	0.4 km (0.2 mi)	1.0 km (0.6 mi)	270 m (900 ft)	2.5 km (1.6 mi)	5.6 km (3.5 mi)	
3384	Toxic by inhalation liquid, flammable, n.o.s. (Inhalation Hazard Zone B)							
3385	Poisonous by inhalation liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)	150 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)	1000 m (3000 ft)	11.0+ km (7.0+ mi)	11.0+ km (7.0+ mi)	
3385	Toxic by inhalation liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)							

## **TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES**

3461	Aluminum alkyl halides, solid <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	1.3 km (0.8 mi)	
9191	Chlorine dioxide, hydrate, frozen <i>(when spilled in water)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.2 km (0.1 mi)	0.7 km (0.4 mi)	
9192	Fluorine, refrigerated liquid <i>(cryogenic liquid)</i>	30 m (100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	90 m (300 ft)	0.8 km (0.5 mi)	3.5 km (2.2 mi)	
9202	Carbon monoxide, refrigerated liquid <i>(cryogenic liquid)</i>	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	90 m (300 ft)	0.7 km (0.4 mi)	2.4 km (1.5 mi)	
9206	Methyl phosphonic dichloride	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	
9263	Chloropivaloyl chloride	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)	
9264	3,5-Dichloro-2,4,6-trifluoropyridine	30 m (100 ft)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.4 km (0.3 mi)	
9269	Trimethoxysilane	30 m (100 ft)	0.2 km (0.1 mi)	0.4 km (0.3 mi)	120 m (400 ft)	1.1 km (0.7 mi)	2.2 km (1.4 mi)	

**See Next Page for Table of Water-Reactive Materials Which Produce Toxic Gases**