

Initial Isolation and Protective Action Distances (UN 1560-1831)

ID No.	NAME OF MATERIAL	<u>SMALL SPILLS</u>						<u>LARGE SPILLS</u>					
		(From a small package or small leak from a large package)						(From a large package or from many small packages)					
		First <u>ISOLATE</u> in all Directions		Then <u>PROTECT</u> persons Downwind during-				First <u>ISOLATE</u> in all Directions		Then <u>PROTECT</u> persons Downwind during-			
		m	(ft)	<u>DAY</u>		<u>NIGHT</u>		m	(ft)	<u>DAY</u>		<u>NIGHT</u>	
		km	(mi)	km	(mi)			km	(mi)	km	(mi)		
1560	Arsenic chloride	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.6	(0.4)	1.4	(0.9)
1560	Arsenic trichloride	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.6	(0.4)	1.4	(0.9)
1569	Bromoacetone	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	0.8	(0.5)	1.9	(1.2)
1580	Chloropicrin	60	(200)	0.5	(0.3)	1.3	(0.8)	185	(600)	1.8	(1.1)	4.0	(2.5)
1581	Chloropicrin and Methyl bromide mixture	30	(100)	0.2	(0.1)	0.5	(0.3)	125	(400)	1.3	(0.8)	3.1	(1.9)
1581	Methyl bromide and Chloropicrin mixtures	30	(100)	0.2	(0.1)	0.5	(0.3)	125	(400)	1.3	(0.8)	3.1	(1.9)
1581	Methyl bromide and more than 2% Chloropicrin mixture, liquid	30	(100)	0.3	(0.2)	1.1	(0.7)	215	(700)	2.1	(1.3)	5.6	(3.5)
1582	Chloropicrin and Methyl chloride mixture	30	(100)	0.2	(0.1)	0.8	(0.5)	95	(300)	1.0	(0.6)	3.2	(2.0)
1582	Methyl chloride and Chloropicrin mixtures	30	(100)	0.2	(0.1)	0.8	(0.5)	95	(300)	1.0	(0.6)	3.2	(2.0)
1583	Chloropicrin mixture, n.o.s.	30	(100)	0.3	(0.2)	1.1	(0.7)	215	(700)	2.1	(1.3)	5.6	(3.5)
1583	Chloropicrin, absorbed	60	(200)	0.5	(0.3)	1.3	(0.8)	185	(600)	1.8	(1.1)	4.0	(2.5)
1589	CK (when used as a weapon)	60	(200)	0.6	(0.4)	2.4	(1.5)	400	(1300)	4.0	(2.5)	8.0	(5.0)
1589	Cyanogen chloride, inhibited	60	(200)	0.5	(0.3)	1.8	(1.1)	275	(900)	2.7	(1.7)	6.8	(4.2)
1595	Dimethyl sulfate	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	0.6	(0.4)
1595	Dimethyl sulphate	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	0.6	(0.4)
1605	Ethylene dibromide	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	0.5	(0.3)
1612	Hexaethyl tetraphosphate and compressed gas mixture	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.4	(0.9)
1613	Hydrocyanic acid, aqueous solution, with not more than 20% Hydrogen cyanide (when «Inhalation Hazard» is on a package or shipping paper)	30	(100)	0.2	(0.1)	0.2	(0.1)	125	(400)	0.5	(0.3)	1.3	(0.8)
1613	Hydrogen cyanide, aqueous solution, with not more than 20% Hydrogen cyanide (when «Inhalation Hazard» is on a package or shipping paper)	30	(100)	0.2	(0.1)	0.2	(0.1)	125	(400)	0.5	(0.3)	1.3	(0.8)
1614	Hydrogen cyanide, anhydrous, stabilized (absorbed)	60	(200)	0.2	(0.1)	0.5	(0.3)	400	(1300)	1.3	(0.8)	3.4	(2.1)
1614	Hydrogen cyanide, stabilized (absorbed)	60	(200)	0.2	(0.1)	0.5	(0.3)	400	(1300)	1.3	(0.8)	3.4	(2.1)
1647	Ethylene dibromide and Methyl bromide mixture, liquid	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	0.5	(0.3)
1647	Methyl bromide and Ethylene dibromide mixture, liquid	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	0.5	(0.3)
1660	Nitric oxide	30	(100)	0.3	(0.2)	1.3	(0.8)	155	(500)	1.3	(0.8)	3.5	(2.2)
1660	Nitric oxide, compressed	30	(100)	0.3	(0.2)	1.3	(0.8)	155	(500)	1.3	(0.8)	3.5	(2.2)
1670	Perchloromethyl mercaptan	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.5	(0.3)	1.1	(0.7)
1680	Potassium cyanide (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	0.8	(0.5)	2.6	(1.6)
1689	Sodium cyanide (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	1.0	(0.6)	2.6	(1.6)
1694	CA (when used as a weapon)	30	(100)	0.2	(0.1)	0.5	(0.3)	155	(500)	1.6	(1.0)	4.2	(2.6)
1695	Chloroacetone, stabilized	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.6	(0.4)	1.3	(0.8)
1697	CN (when used as a weapon)	30	(100)	0.2	(0.1)	0.5	(0.3)	125	(400)	1.1	(0.7)	3.2	(2.0)
1698	Adamsite (when used as a weapon)	60	(200)	0.3	(0.2)	1.1	(0.7)	185	(600)	2.3	(1.4)	5.1	(3.2)
1698	DM (when used as a weapon)	60	(200)	0.3	(0.2)	1.1	(0.7)	185	(600)	2.3	(1.4)	5.1	(3.2)
1699	DA (when used as a weapon)	60	(200)	0.3	(0.2)	1.1	(0.7)	185	(600)	2.3	(1.4)	5.1	(3.2)
1703	Tetraethyl dithiopyrophosphate and gases, in solution	30	(100)	0.3	(0.2)	1.1	(0.7)	365	(1200)	3.7	(2.3)	6.9	(4.3)
1703	Tetraethyl dithiopyrophosphate and gases, mixtures	30	(100)	0.3	(0.2)	1.1	(0.7)	365	(1200)	3.7	(2.3)	6.9	(4.3)
1703	Tetraethyl dithiopyrophosphate and gases, mixtures, or in solution (LC50 more than 200 ppm but not more than 5000 ppm)	30	(100)	0.2	(0.1)	0.5	(0.3)	125	(400)	0.8	(0.5)	2.9	(1.8)
1703	Tetraethyl dithiopyrophosphate and gases, mixtures, or in solution (LC50 not more than 200 ppm)	30	(100)	0.3	(0.2)	1.1	(0.7)	365	(1200)	3.7	(2.3)	6.9	(4.3)
1705	Tetraethyl pyrophosphate and compressed gas mixtures	30	(100)	0.3	(0.2)	1.3	(0.8)	400	(1300)	4.0	(2.5)	7.2	(4.5)

1705	Tetraethyl pyrophosphate and compressed gas mixtures (LC50 more than 200 ppm but not more than 5000 ppm)	30	(100)	0.2	(0.1)	0.5	(0.3)	125	(400)	0.8	(0.5)	2.9	(1.8)
1705	Tetraethyl pyrophosphate and compressed gas mixtures (LC50 not more than 200 ppm)	30	(100)	0.3	(0.2)	1.3	(0.8)	400	(1300)	4.0	(2.5)	7.2	(4.5)
1714	Zinc phosphide (when spilled in water)	30	(100)	0.2	(0.1)	0.8	(0.5)	185	(600)	1.8	(1.1)	5.1	(3.2)
1716	Acetyl bromide (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	0.8	(0.5)	2.3	(1.4)
1717	Acetyl chloride (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	1.0	(0.6)	2.7	(1.7)
1722	Allyl chlorocarbonate	155	(500)	1.3	(0.8)	2.7	(1.7)	610	(2000)	6.1	(3.8)	10.8	(6.7)
1722	Allyl chloroformate	155	(500)	1.3	(0.8)	2.7	(1.7)	610	(2000)	6.1	(3.8)	10.8	(6.7)
1724	Allyltrichlorosilane, stabilized (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.0	(0.6)	2.9	(1.8)
1725	Aluminum bromide, anhydrous (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	1.0	(0.6)	2.7	(1.7)
1726	Aluminum chloride, anhydrous (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.6	(1.0)
1728	Amyltrichlorosilane (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.6	(1.0)
1732	Antimony pentafluoride (when spilled in water)	30	(100)	0.2	(0.1)	0.6	(0.4)	155	(500)	1.6	(1.0)	3.7	(2.3)
1736	Benzoyl chloride (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.1	(0.7)
1741	Boron trichloride	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.6	(0.4)	1.6	(1.0)
1744	Bromine	60	(200)	0.3	(0.2)	1.1	(0.7)	185	(600)	1.6	(1.0)	4.0	(2.5)
1744	Bromine, solution	60	(200)	0.3	(0.2)	1.1	(0.7)	185	(600)	1.6	(1.0)	4.0	(2.5)
1745	Bromine pentafluoride (when spilled in water)	30	(100)	0.2	(0.1)	0.8	(0.5)	215	(700)	1.9	(1.2)	4.2	(2.6)
1745	Bromine pentafluoride (when spilled on land)	60	(200)	0.5	(0.3)	1.3	(0.8)	245	(800)	2.3	(1.4)	5.0	(3.1)
1746	Bromine trifluoride (when spilled in water)	30	(100)	0.2	(0.1)	0.6	(0.4)	185	(600)	2.1	(1.3)	5.5	(3.4)
1746	Bromine trifluoride (when spilled on land)	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.3	(0.2)	0.8	(0.5)
1747	Butyltrichlorosilane (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.8	(1.1)
1749	Chlorine trifluoride	60	(200)	0.5	(0.3)	1.6	(1.0)	335	(1100)	3.4	(2.1)	7.7	(4.8)
1752	Chloroacetyl chloride (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.3	(0.2)	1.3	(0.8)
1752	Chloroacetyl chloride (when spilled on land)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	0.8	(0.5)	1.6	(1.0)
1754	Chlorosulfonic acid (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.4	(0.9)
1754	Chlorosulfonic acid (when spilled on land)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.2	(0.1)	0.5	(0.3)
1754	Chlorosulfonic acid and Sulfur trioxide mixture (when spilled in water)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Chlorosulfonic acid and Sulfur trioxide mixture (when spilled on land)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Chlorosulphonic acid (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.4	(0.9)
1754	Chlorosulphonic acid (when spilled on land)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.2	(0.1)	0.5	(0.3)
1754	Chlorosulphonic acid and Sulphur trioxide mixture (when spilled in water)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Chlorosulphonic acid and Sulphur trioxide mixture (when spilled on land)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Sulfur trioxide and Chlorosulfonic acid mixture (when spilled in water)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Sulfur trioxide and Chlorosulfonic acid mixture (when spilled on land)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Sulphur trioxide and Chlorosulphonic acid mixture (when spilled in water)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1754	Sulphur trioxide and Chlorosulphonic acid mixture (when spilled on land)	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1758	Chromium oxychloride (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.3	(0.2)	1.3	(0.8)
1777	Fluorosulfonic acid (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.4	(0.9)
1777	Fluorosulphonic acid (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.4	(0.9)
1801	Octyltrichlorosilane (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	0.8	(0.5)	2.4	(1.5)
1806	Phosphorus pentachloride (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.0	(0.6)	2.9	(1.8)
1809	Phosphorus trichloride (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.6	(1.6)
1809	Phosphorus trichloride (when spilled on land)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
1810	Phosphorus oxychloride (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	95	(300)	1.0	(0.6)	2.6	(1.6)
1810	Phosphorus oxychloride (when spilled on land)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	0.8	(0.5)	1.8	(1.1)
1818	Silicon tetrachloride (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.3	(0.8)	3.4	(2.1)
1828	Sulfur chlorides (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.6	(0.4)	2.3	(1.4)
1828	Sulfur chlorides (when spilled on land)	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.5	(0.3)	1.0	(0.6)
1828	Sulphur chlorides (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.6	(0.4)	2.3	(1.4)
1828	Sulphur chlorides (when spilled on land)	30	(100)	0.2	(0.1)	0.3	(0.2)	60	(200)	0.5	(0.3)	1.0	(0.6)

1829 Sulfur trioxide	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulfur trioxide, inhibited	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulfur trioxide, stabilized	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulfur trioxide, uninhibited	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulphur trioxide	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulphur trioxide, inhibited	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulphur trioxide, stabilized	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1829 Sulphur trioxide, uninhibited	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Oleum	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Oleum, with not less than 30% free Sulfur trioxide	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Oleum, with not less than 30% free Sulphur trioxide	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Sulfuric acid, fuming	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Sulfuric acid, fuming, with not less than 30% free Sulfur trioxide	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Sulphuric acid, fuming	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)
1831 Sulphuric acid, fuming, with not less than 30% free Sulphur trioxide	60	(200)	0.3	(0.2)	1.1	(0.7)	305	(1000)	2.1	(1.3)	5.6	(3.5)