

Initial Isolation and Protective Action Distances (UN 2826-3246)

ID No.	NAME OF MATERIAL	SMALL SPILLS						LARGE SPILLS					
				(From a small package or small leak from a large package)						(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		NIGHT		DAY		NIGHT		DAY		NIGHT	
		m	(ft)	km	(mi)	km	(mi)	m	(ft)	km	(mi)	km	(mi)
2826	Ethyl chlorothioformate	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	0.8	(0.5)
2845	Ethyl phosphonous dichloride, anhydrous	60	(200)	0.5	(0.3)	1.3	(0.8)	155	(500)	1.6	(1.0)	3.4	(2.1)
2845	Methyl phosphonous dichloride	60	(200)	0.5	(0.3)	1.3	(0.8)	245	(800)	2.3	(1.4)	5.0	(3.1)
2901	Bromine chloride	30	(100)	0.3	(0.2)	1.0	(0.6)	155	(500)	1.6	(1.0)	4.0	(2.5)
2927	Ethyl phosphonothioic dichloride, anhydrous	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.2	(0.1)	0.2	(0.1)
2927	Ethyl phosphorodichloridate	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.2	(0.1)	0.3	(0.2)
2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone A)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.3	(0.2)	1.1	(0.7)	245	(800)	1.6	(1.0)	5.0	(2.5)
2927	Poisonous liquid, corrosive, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone A)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.3	(0.2)	1.1	(0.7)	245	(800)	1.6	(1.0)	5.0	(2.5)
2927	Toxic liquid, corrosive, organic, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
2929	Poisonous liquid, flammable, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
2929	Poisonous liquid, flammable, organic, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
2929	Toxic liquid, flammable, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2929	Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
2929	Toxic liquid, flammable, organic, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
2977	Radioactive material, Uranium hexafluoride, fissile (when spilled in water)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	1.0	(0.6)	3.1	(1.9)
2977	Uranium hexafluoride, fissile containing more than 1% Uranium-235 (when spilled in water)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	1.0	(0.6)	3.1	(1.9)
2978	Radioactive material, Uranium hexafluoride, non fissile or fissile-excepted (when spilled in water)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	1.0	(0.6)	3.1	(1.9)
2978	Uranium hexafluoride, fissile-excepted (when spilled in water)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	1.0	(0.6)	3.1	(1.9)
2978	Uranium hexafluoride, low specific activity (when spilled in water)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	1.0	(0.6)	3.1	(1.9)
2978	Uranium hexafluoride, non-fissile (when spilled in water)	30	(100)	0.2	(0.1)	0.5	(0.3)	95	(300)	1.0	(0.6)	3.1	(1.9)
2985	Chlorosilanes, flammable, corrosive, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
2985	Chlorosilanes, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)

2986	Chlorosilanes, corrosive, flammable, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
2986	Chlorosilanes, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
2987	Chlorosilanes, corrosive, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
2987	Chlorosilanes, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
2988	Chlorosilanes, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
2988	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.3	(0.2)	125	(400)	1.1	(0.7)	2.9	(1.8)
3023	2-Methyl-2-heptanethiol	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.1	(0.7)
3023	tert-Octyl mercaptan	30	(100)	0.2	(0.1)	0.2	(0.1)	60	(200)	0.5	(0.3)	1.1	(0.7)
3048	Aluminum phosphide pesticide (when spilled in water)	30	(100)	0.2	(0.1)	0.8	(0.5)	215	(700)	1.9	(1.2)	5.3	(3.3)
3049	Metal alkyl halides, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.3	(0.8)
3049	Metal alkyl halides, water-reactive, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.3	(0.8)
3049	Metal aryl halides, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.3	(0.8)
3049	Metal aryl halides, water-reactive, n.o.s. (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.3	(0.8)
3052	Aluminum alkyl halides (when spilled in water)	30	(100)	0.2	(0.1)	0.2	(0.1)	30	(100)	0.3	(0.2)	1.3	(0.8)
3057	Trifluoroacetyl chloride	30	(100)	0.3	(0.2)	1.4	(0.9)	430	(1400)	4.0	(2.5)	8.5	(5.3)
3079	Methacrylonitrile, inhibited	30	(100)	0.2	(0.1)	0.5	(0.3)	60	(200)	0.6	(0.4)	1.6	(1.0)
3083	Perchloryl fluoride	30	(100)	0.2	(0.1)	1.0	(0.6)	215	(700)	2.3	(1.4)	5.6	(3.5)
3122	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
3122	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
3122	Poisonous liquid, oxidizing, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.2	(0.1)	0.6	(0.4)	125	(400)	1.1	(0.7)	2.7	(1.7)
3122	Toxic liquid, oxidizing, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	155	(500)	1.3	(0.8)	3.4	(2.1)	915	(3000)	8.7	(5.4)	11.0+	(7.0+)
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.5	(0.3)	1.3	(0.8)	245	(800)	2.3	(1.4)	5.0	(3.1)
3123	Poisonous liquid, water-reactive, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.5	(0.3)	1.3	(0.8)	245	(800)	2.3	(1.4)	5.0	(3.1)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.5	(0.3)	1.3	(0.8)	245	(800)	2.3	(1.4)	5.0	(3.1)
3123	Toxic liquid, water-reactive, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.5	(0.3)	1.3	(0.8)	245	(800)	2.3	(1.4)	5.0	(3.1)
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (when «Inhalation Hazard» is on a package or shipping paper)	215	(700)	1.9	(1.2)	4.3	(2.7)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3160	Liquefied gas, poisonous, flammable, n.o.s.	185	(600)	1.8	(1.1)	5.6	(3.5)	915	(3000)	10.8	(6.7)	11.0+	(7.0+)
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	185	(600)	1.8	(1.1)	5.6	(3.5)	915	(3000)	10.8	(6.7)	11.0+	(7.0+)
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.3	(0.2)	1.1	(0.7)	305	(1000)	3.1	(1.9)	7.7	(4.8)
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	30	(100)	0.2	(0.1)	1.0	(0.6)	215	(700)	2.1	(1.3)	5.6	(3.5)
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	30	(100)	0.2	(0.1)	0.6	(0.4)	185	(600)	1.6	(1.0)	4.3	(2.7)

3160	Liquefied gas, toxic, flammable, n.o.s.	185	(600)	1.8	(1.1)	5.6	(3.5)	915	(3000)	10.8	(6.7)	11.0+	(7.0+)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	185	(600)	1.8	(1.1)	5.6	(3.5)	915	(3000)	10.8	(6.7)	11.0+	(7.0+)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	30	(100)	0.3	(0.2)	1.1	(0.7)	305	(1000)	3.1	(1.9)	7.7	(4.8)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30	(100)	0.2	(0.1)	1.0	(0.6)	215	(700)	2.1	(1.3)	5.6	(3.5)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30	(100)	0.2	(0.1)	0.6	(0.4)	185	(600)	1.6	(1.0)	4.3	(2.7)
3162	Liquefied gas, poisonous, n.o.s.	430	(1400)	4.2	(2.6)	8.4	(5.2)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	430	(1400)	4.2	(2.6)	8.4	(5.2)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.5	(0.3)	1.6	(1.0)	430	(1400)	4.0	(2.5)	9.8	(6.1)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30	(100)	0.3	(0.2)	1.3	(0.8)	215	(700)	3.1	(1.9)	7.2	(4.5)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30	(100)	0.2	(0.1)	0.6	(0.4)	185	(600)	1.6	(1.0)	4.3	(2.7)
3162	Liquefied gas, toxic, n.o.s.	430	(1400)	4.2	(2.6)	8.4	(5.2)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	430	(1400)	4.2	(2.6)	8.4	(5.2)	915	(3000)	11.0+	(7.0+)	11.0+	(7.0+)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60	(200)	0.5	(0.3)	1.6	(1.0)	430	(1400)	4.0	(2.5)	9.8	(6.1)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30	(100)	0.3	(0.2)	1.3	(0.8)	215	(700)	3.1	(1.9)	7.2	(4.5)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	30	(100)	0.2	(0.1)	0.6	(0.4)	185	(600)	1.6	(1.0)	4.3	(2.7)
3246	Methanesulfonyl chloride	95	(300)	0.6	(0.4)	2.4	(1.5)	245	(800)	2.3	(1.4)	5.1	(3.2)
3246	Methanesulphonyl chloride	95	(300)	0.6	(0.4)	2.4	(1.5)	245	(800)	2.3	(1.4)	5.1	(3.2)