

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

ID No.	NAME OF MATERIAL	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)
1541	Acetone cyanohydrin, stabilized (when spilled in water)	30 m	(100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	95 m	(300 ft)	0.8 km (0.5 mi)	2.1 km (1.3 mi)
1556	MD (when used as a weapon)	30 m	(100 ft)	0.3 km (0.2 mi)	0.8 km (0.5 mi)	125 m	(400 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)
1556	Methylchloroarsine	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	60 m	(200 ft)	0.5 km (0.3 mi)	1.0 km (0.6 mi)
1556	PD (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)	0.3 km (0.2 mi)
1560	Arsenic chloride	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	60 m	(200 ft)	0.6 km (0.4 mi)	1.4 km (0.9 mi)
1560	Arsenic trichloride								
1569	Bromoacetone	30 m	(100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	95 m	(300 ft)	0.8 km (0.5 mi)	1.9 km (1.2 mi)
1580	Chloropicrin	60 m	(200 ft)	0.5 km (0.3 mi)	1.3 km (0.8 mi)	185 m	(600 ft)	1.8 km (1.1 mi)	4.0 km (2.5 mi)
1581	Chloropicrin and Methyl bromide mixture	30 m	(100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	125 m	(400 ft)	1.3 km (0.8 mi)	3.1 km (1.9 mi)
1581	Methyl bromide and Chloropicrin mixtures								
1581	Methyl bromide and more than 2% Chloropicrin mixture, liquid	30 m	(100 ft)	0.3 km (0.2 mi)	1.1 km (0.7 mi)	215 m	(700 ft)	2.1 km (1.3 mi)	5.6 km (3.5 mi)
1582	Chloropicrin and Methyl chloride mixture	30 m	(100 ft)	0.2 km (0.1 mi)	0.8 km (0.5 mi)	95 m	(300 ft)	1.0 km (0.6 mi)	3.2 km (2.0 mi)
1582	Methyl chloride and Chloropicrin mixtures								
1583	Chloropicrin, absorbed	60 m	(200 ft)	0.5 km (0.3 mi)	1.3 km (0.8 mi)	185 m	(600 ft)	1.8 km (1.1 mi)	4.0 km (2.5 mi)
1583	Chloropicrin mixture, n.o.s.	30 m	(100 ft)	0.3 km (0.2 mi)	1.1 km (0.7 mi)	215 m	(700 ft)	2.1 km (1.3 mi)	5.6 km (3.5 mi)
1589	CK (when used as a weapon)	60 m	(200 ft)	0.6 km (0.4 mi)	2.4 km (1.5 mi)	400 m	(1300 ft)	4.0 km (2.5 mi)	8.0 km (5.0 mi)

1589	Cyanogen chloride, inhibited	60 m (200 ft)	0.5 km (0.3 mi)	1.8 km (1.1 mi)	275 m (900 ft)	2.7 km (1.7 mi)	6.8 km (4.2 mi)
1595 1595	Dimethyl sulfate Dimethyl sulphate	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.6 km (0.4 mi)
1605	Ethylene dibromide	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)
1612	Hexaethyl tetraphosphate and compressed gas mixture	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	1.4 km (0.9 mi)
1613 1613	Hydrocyanic acid, aqueous solution, with not more than 20% Hydrogen cyanide (when "Inhalation Hazard" is on a package or shipping paper) Hydrogen cyanide, aqueous solution, with not more than 20% Hydrogen cyanide (when "Inhalation Hazard" is on a package or shipping paper)	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	125 m (400 ft)	0.5 km (0.3 mi)	1.3 km (0.8 mi)
1614 1614	Hydrogen cyanide, anhydrous, stabilized (absorbed) Hydrogen cyanide, stabilized (absorbed)	60 m (200 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	400 m (1300 ft)	1.3 km (0.8 mi)	3.4 km (2.1 mi)
1647 1647	Ethylene dibromide and Methyl bromide mixture, liquid Methyl bromide and Ethylene dibromide mixture, liquid	30 m (100 ft)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft)	0.3 km (0.2 mi)	0.5 km (0.3 mi)
1660 1660	Nitric oxide Nitric oxide, compressed	30 m (100 ft)	0.3 km (0.2 mi)	1.3 km (0.8 mi)	155 m (500 ft)	1.3 km (0.8 mi)	3.5 km (2.2 mi)
1670	Perchloromethyl mercaptan	30 m (100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	60 m (200 ft)	0.5 km (0.3 mi)	1.1 km (0.7 mi)
1680	Potassium cyanide (when spilled in water)	30 m (100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	95 m (300 ft)	0.8 km (0.5 mi)	2.6 km (1.6 mi)
1689	Sodium cyanide (when spilled in water)	30 m (100 ft)	0.2 km (0.1 mi)	0.3 km (0.2 mi)	95 m (300 ft)	1.0 km (0.6 mi)	2.6 km (1.6 mi)
1694	CA (when used as a weapon)	30 m (100 ft)	0.2 km (0.1 mi)	0.5 km (0.3 mi)	155 m (500 ft)	1.6 km (1.0 mi)	4.2 km (2.6 mi)

"+" means distance can be larger in certain atmospheric conditions

TABLE OF WATER-REACTIVE MATERIALS WHICH PRODUCE TOXIC GASES

Materials Which Produce Large Amounts of Toxic-by-Inhalation (TIH) Gas(es) When Spilled in Water

ID No.	Guide No.	Name of Material	TIH Gas(es) Produced
1162	151	Dimethyldichlorosilane	HCl
1242	139	Methyldichlorosilane	HCl
1250	155	Methyltrichlorosilane	HCl
1295	139	Trichlorosilane	HCl
1298	155	Trimethylchlorosilane	HCl
1340	139	Phosphorus pentasulfide, free from yellow and white Phosphorus	H ₂ S
1340	139	Phosphorus pentasulphide, free from yellow and white Phosphorus	H ₂ S
1360	139	Calcium phosphide	PH ₃
1384	135	Sodium dithionite	H ₂ S SO ₂
1384	135	Sodium hydrosulfite	H ₂ S SO ₂
1384	135	Sodium hydrosulphite	H ₂ S SO ₂
1397	139	Aluminum phosphide	PH ₃
1412	139	Lithium amide	NH ₃
1419	139	Magnesium aluminum phosphide	PH ₃
1432	139	Sodium phosphide	PH ₃
1433	139	Stannic phosphides	PH ₃
1541	155	Acetone cyanohydrin, stabilized	HCN
1680	157	Potassium cyanide	HCN
1689	157	Sodium cyanide	HCN
1714	139	Zinc phosphide	PH ₃
1716	156	Acetyl bromide	HBr
1717	132	Acetyl chloride	HCl
1724	155	Allyl trichlorosilane, stabilized	HCl
1725	137	Aluminum bromide, anhydrous	HBr

Chemical Symbols for TIH Gases:

Br ₂	Bromine	HF	Hydrogen fluoride	PH ₃	Phosphine
Cl ₂	Chlorine	HI	Hydrogen iodide	SO ₂	Sulfur dioxide
HBr	Hydrogen bromide	H ₂ S	Hydrogen sulfide	SO ₂	Sulphur dioxide
HCl	Hydrogen chloride	H ₂ S	Hydrogen sulphide	SO ₃	Sulfur trioxide
HCN	Hydrogen cyanide	NH ₃	Ammonia	SO ₃	Sulphur trioxide