

TABLE 3 - INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES FOR LARGE SPILLS FOR DIFFERENT QUANTITIES OF SIX COMMON THI (PIH IN THE US) GASES

	First ISOLATE in all Directions	Then PROTECT persons Downwind during					
		DAY			NIGHT		
		Low wind (< 6 mph = < 10 km/h)	Moderate wind (6-12 mph = 10 - 20 km/h)	High wind (> 12 mph = > 20 km/h)	Low wind < 10 km/h)	Moderate wind (6-12 mph = 10 - 20 km/h)	High wind (> 12 mph = > 20 km/h)
Meters (Feet)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)
TRANSPORT CONTAINER							
Rail tank car	300 (1000)	1.6 (11.0)	1.2 (0.8)	1.0 (0.6)	4.1 (2.6)	2.1 (1.3)	1.3 (0.8)
Highway tank truck or trailer	150 (500)	0.8 (0.5)	0.5 (0.3)	0.4 (0.3)	1.8 (1.1)	0.7 (0.4)	0.6 (0.4)
Agricultural nurse tank	60 (200)	0.5 (0.3)	0.3 (0.2)	0.3 (0.2)	1.4 (0.9)	0.3 (0.2)	0.3 (0.2)
Multiple small cylinders	30 (100)	0.3 (0.2)	0.2 (0.1)	0.1 (0.1)	0.7 (0.5)	0.3 (0.2)	0.2 (0.1)
TRANSPORT CONTAINER							
Rail tank car	1000 (3000)	9.6 (6.0)	6.3 (3.9)	5.1 (3.2)	11.0+ (7.0+)	8.9 (5.6)	6.5 (4.1)
Highway tank truck or trailer	600 (2000)	5.6 (3.5)	3.3 (2.1)	2.5 (1.6)	6.4 (4.0)	4.7 (2.9)	3.8 (2.4)
Multiple ton cylinders	300 (1000)	1.9 (1.2)	1.3 (0.8)	1.0 (0.6)	3.5 (2.2)	2.3 (1.4)	1.3 (0.8)
Multiple small cylinders or single ton cylinder	150 (500)	1.3 (0.9)	0.7 (0.5)	0.5 (0.3)	2.4 (1.5)	1.2 (0.8)	0.6 (0.4)
UN1005 Ammonia, anhydrous / Anhydrous ammonia: Large Spills							
Rail tank car	300 (1000)	1.6 (11.0)	1.2 (0.8)	1.0 (0.6)	4.1 (2.6)	2.1 (1.3)	1.3 (0.8)
Highway tank truck or trailer	150 (500)	0.8 (0.5)	0.5 (0.3)	0.4 (0.3)	1.8 (1.1)	0.7 (0.4)	0.6 (0.4)
Agricultural nurse tank	60 (200)	0.5 (0.3)	0.3 (0.2)	0.3 (0.2)	1.4 (0.9)	0.3 (0.2)	0.3 (0.2)
Multiple small cylinders	30 (100)	0.3 (0.2)	0.2 (0.1)	0.1 (0.1)	0.7 (0.5)	0.3 (0.2)	0.2 (0.1)
UN1017 Chlorine: Large Spills							
Rail tank car	1000 (3000)	9.6 (6.0)	6.3 (3.9)	5.1 (3.2)	11.0+ (7.0+)	8.9 (5.6)	6.5 (4.1)
Highway tank truck or trailer	600 (2000)	5.6 (3.5)	3.3 (2.1)	2.5 (1.6)	6.4 (4.0)	4.7 (2.9)	3.8 (2.4)
Multiple ton cylinders	300 (1000)	1.9 (1.2)	1.3 (0.8)	1.0 (0.6)	3.5 (2.2)	2.3 (1.4)	1.3 (0.8)
Multiple small cylinders or single ton cylinder	150 (500)	1.3 (0.9)	0.7 (0.5)	0.5 (0.3)	2.4 (1.5)	1.2 (0.8)	0.6 (0.4)

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

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		DAY			NIGHT			
		Meters (Feet)	Kilometers (Miles)	Kilometers (Miles)	Low wind (< 6 mph = < 10 km/h)	Moderate wind (6-12 mph = 10 - 20 km/h)	High wind (> 12 mph = > 20 km/h)	
TRANSPORT CONTAINER								
UN1040 Ethylene oxide: Large Spills								
Rail tank car	200 (600)	1.5 (1.0)	0.8 (0.5)	0.7 (0.4)	3.0 (1.8)	1.4 (0.9)	0.8 (0.5)	
Highway tank truck or trailer	100 (300)	0.9 (0.6)	0.5 (0.3)	0.4 (0.3)	2.0 (1.3)	0.7 (0.4)	0.4 (0.3)	
Multiple small cylinders or single ton cylinder	30 (100)	0.4 (0.3)	0.2 (0.1)	0.1 (0.1)	0.8 (0.5)	0.3 (0.2)	0.2 (0.1)	
TRANSPORT CONTAINER								
UN1050 Hydrogen chloride, anhydrous: Large Spills								
Rail tank car	500 (1500)	3.7 (2.3)	2.0 (1.3)	1.7 (1.1)	9.7 (6.1)	3.3 (2.1)	2.2 (1.4)	
Highway tank truck or trailer	200 (600)	1.5 (0.9)	0.8 (0.5)	0.6 (0.4)	3.7 (2.3)	1.5 (0.9)	0.8 (0.5)	
Multiple ton cylinders	30 (100)	0.4 (0.3)	0.2 (0.1)	0.1 (0.1)	1.0 (0.6)	0.3 (0.2)	0.1 (0.1)	
Multiple small cylinders or single ton cylinder	30 (100)	0.3 (0.2)	0.2 (0.1)	0.1 (0.1)	0.9 (0.6)	0.3 (0.2)	0.2 (0.1)	

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Meters (Feet)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)	Kilometers (Miles)
TRANSPORT CONTAINER	UN1052 Hydrogen fluoride, anhydrous: Large Spills						
Rail tank car	500 (1500)	3.4 (2.1)	2.1 (1.3)	1.8 (1.1)	6.4 (4.0)	3.0 (1.9)	1.9 (1.2)
Highway tank truck or trailer	200 (700)	2.0 (1.2)	1.0 (0.7)	0.9 (0.6)	3.6 (2.3)	1.5 (1.0)	0.9 (0.6)
Multiple small cylinders or single ton cylinder	100 (300)	0.8 (0.5)	0.4 (0.2)	0.3 (0.2)	1.7 (1.1)	0.5 (0.3)	0.3 (0.2)
TRANSPORT CONTAINER	UN1079 Sulfur dioxide / Sulphur dioxide: Large Spills						
Rail tank car	1000 (3000)	11.0+ (7.0+)	11.0+ (7.0+)	6.9 (4.3)	11.0+ (7.0+)	11.0+ (7.0+)	9.6 (6.0)
Highway tank truck or trailer	1000 (3000)	11.0+ (7.0+)	6.0 (3.8)	5.0 (3.3)	11.0+ (7.0+)	7.9 (5.1)	6.0 (3.9)
Multiple ton cylinders	500 (1500)	5.2 (3.3)	2.2 (1.4)	1.7 (1.1)	7.4 (4.3)	4.0 (2.5)	2.7 (1.7)
Multiple small cylinders or single ton cylinder	200 (600)	3.1 (1.9)	1.5 (0.9)	1.1 (0.7)	5.6 (3.5)	2.4 (1.5)	1.5 (0.9)

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