

TABLE 3 - INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES FOR LARGE SPILLS FOR DIFFERENT QUANTITIES OF SIX COMMON TIH (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 (< 6 mph = < 10 km/h)		Moderate wind (6-12 mph = 10 - 20 km/h)		High wind (> 12 mph = > 20 km/h)		
Meters	(Feet)	km	(Miles)	km	(Miles)	km	(Miles)	km	(Miles)	km	(Miles)	km	(Miles)	
TRANSPORT CONTAINER	UN1005 Ammonia, anhydrous: Large Spills													
Rail tank car	300	(1000)	1.9	(1.2)	1.5	(0.9)	1.1	(0.6)	4.5	(2.8)	2.5	(1.5)	1.4	(0.9)
Highway tank truck or trailer	150	(500)	0.9	(0.6)	0.5	(0.3)	0.4	(0.3)	2.0	(1.3)	0.8	(0.5)	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	UN1017 Chlorine: Large Spills													
Rail tank car	1000	(3000)	10.1	(6.3)	6.8	(4.2)	5.3	(3.3)	11+	(7+)	9.2	(5.7)	6.9	(4.3)
Highway tank truck or trailer	600	(2000)	5.8	(3.6)	3.4	(2.1)	2.9	(1.8)	6.7	(4.3)	5.0	(3.1)	4.1	(2.5)
Multiple ton cylinders	300	(1000)	2.1	(1.3)	1.3	(0.8)	1.0	(0.6)	4.0	(2.5)	2.4	(1.5)	1.3	(0.8)
Multiple small cylinders or single ton cylinder	150	(500)	1.5	(0.9)	0.8	(0.5)	0.5	(0.3)	2.9	(1.8)	1.3	(0.8)	0.6	(0.4)

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Meters (Feet)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	
TRANSPORT CONTAINER	UN1040 Ethylene oxide: Large Spills UN1040 Ethylene oxide with Nitrogen: Large Spills							
Rail tank car	200 (600)	1.6 (1.0)	0.8 (0.5)	0.7 (0.5)	3.3 (2.1)	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)	0.9 (0.6)	0.3 (0.2)	0.2 (0.1)	
TRANSPORT CONTAINER	UN1050 Hydrogen chloride, anhydrous: Large Spills UN2186 Hydrogen chloride, refrigerated liquid: Large Spills							
Rail tank car	500 (1500)	3.9 (2.5)	2.1 (1.2)	1.8 (1.2)	10.1 (6.3)	3.5 (2.2)	2.3 (1.5)	
Highway tank truck or trailer	200 (600)	1.5 (0.9)	0.8 (0.5)	0.6 (0.4)	3.9 (2.5)	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)	1.1 (0.7)	0.3 (0.2)	0.2 (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)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	km (Miles)	
TRANSPORT CONTAINER	UN1052 Hydrogen fluoride, anhydrous: Large Spills									
Rail tank car	500 (1500)	3.5 (2.2)	2.1 (1.3)	1.8 (1.2)	6.6 (4.1)	3.1 (1.9)	2.0 (1.2)			
Highway tank truck or trailer	200 (700)	2.0 (1.2)	1.0 (0.7)	0.9 (0.6)	3.7 (2.3)	1.6 (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+ (7+)	11+ (7+)	7.2 (4.5)	11+ (7+)	11+ (7+)	10.1 (6.3)			
Highway tank truck or trailer	1000 (3000)	11+ (7+)	6.2 (3.8)	5.3 (3.3)	11+ (7+)	8.2 (5.1)	6.2 (3.9)			
Multiple ton cylinders	500 (1500)	5.4 (3.4)	2.4 (1.5)	1.8 (1.1)	7.8 (4.8)	4.2 (2.6)	2.9 (1.8)			
Multiple small cylinders or single ton cylinder	200 (600)	3.2 (2.0)	1.5 (0.9)	1.1 (0.7)	5.8 (3.6)	2.5 (1.6)	1.5 (0.9)			

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