

Appendix 8c - Table 8.1: Base Quantities (B) for all Effect Types and Hazard Ratings

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HSNO Category	UN Class Equivalent	Hazard Level	Unit	Base Quantity (B)		
				Fire/ Explosion	Human Health	Environment
Explosiveness						
1.1	Class 1.1	High	t	0.1	-	-
1.2	Class 1.2	Medium	t	1	-	-
1.3	Class 1.3	Low	t	3	-	-
Flammable gases						
2.1 A+B (LPG)	Class 2.1	Medium	t	30	-	-
2.1 A+B (excluding LPG)	Class 2.1	High	m ³	10,000*	-	-
Flammable liquids						
3 A and 3 B	Class 3PGI and 3PGII	High	t	10	-	-
3 C	Class 3PGIII	Medium	t	30	-	-
3 D		Low	t	100	-	-
Flammable solids						
4.1 (all categories)	Class 4.1	Medium	t	10	-	-
4.2 (all categories)	Class 4.2	High	t	1	-	-
4.3 (all categories)	Class 4.3	High	t	1	-	-
Oxidising gases, liquids and solids						
5.1 (all categories)	Class 5.1	Medium	t (m ³)	10 (10,000*)	-	-
5.2 (all categories)	Class 5.2	High	t	1	-	-

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				Fire/ Explosion	Human Health	Environment
Toxic gases, liquids and solids						
6.1 A and 6.1 B	Class 6.1 PGI and PGII	High	t	-	0.5	-
6.1 A and 6.1 B	Class 2.3 PGI and PGII	High	m ³	-	30*	-
6.1 C	Class 6.1 PGIII	Medium	t	-	10	-
6.1 C	Class 2.3 PGIII	Medium	m ³	-	50*	-
6.7-6.9 (chronic toxicity categories)	OECD	Medium	t	-	10	-
6.1 D		Low	t	-	30	-
6.1 D		Low	m ³	-	500*	-
Corrosive gases, liquids and solids						
(8A) 6.3-6.4 (corrosives, all categories)	Class 8	Medium	t (m ³)	-	10	-
Ecotoxic gases, liquids and solids						
9.1-9.4A	(OECD 1)	High	t (m ³)	-	-	1 (30*)
9.1-9.4B	(OECD 2)	Medium	t (m ³)	-	-	30 (50*)
9.1-9.4C	(OECD 3)	Low	t (m ³)	-	-	100 (500*)

* Quantity Threshold in m³ at 101.3 kPa and 20 °C for permanent or compressed gases.

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Table 8.2: Adjustment Factors

Adjustment Factors for All Effect Types		
Fire/ Explosion	Human Health	Environment
FF1: substance form	FH1: substance form	FE1: substance form
Solid = 1 Liquid, powder = 1 Gas (101.3 kPa and 20°C) = 0.1	Solid = 3 Liquid, powder = 1 Gas (101.3 kPa and 20°C) = 0.1	Solid = 3 Liquid, powder = 1 Gas (101.3 kPa and 20°C) = 0.1
FF2: separation distance from site boundary (sub-facility)	FH2: separation distance from site boundary (sub-facility) (gases only)	FE2: environmental sensitivity
< 30 m = 1 > 30 m (>60 m) ¹ = 3	< 30 m = 1 > 30 m (>60 m) ² = 3	Normal = 1 Adjacent to water resource ² = 0.3
FF3: type of activity	FH3: type of activity	FE3: type of activity
Use = 0.3 Above-ground storage = 1 Underground storage ³ = 10	Use = 0.3 Above-ground storage = 1 Underground storage ³ = 10	Use = 0.3 Above-ground storage = 1 Underground storage ³ = 3
Final Fire/Explosion Adjustment Factor FF = FF1 x FF2 x FF3	Final Human Health Adjustment Factor FH = FH1 x FH2 x FH3	Final Environment Adjustment Factor FE = FE1 x FE2 x FE3

¹ If the facility is assessed as a sub-facility, the distance to the neighbouring sub-facility must be more than 60 metres (ie, 2 x 30 metres) to qualify for an Adjustment Factor of 3 (a [hazardous sub-facility](#) is a [hazardous facility](#) that is separated by more than 30 metres from any other hazardous facility on the same site).

² [Water](#) resources include aquifers and [water](#) supplies, [streams](#), springs, lakes, [indigenous wetlands](#), estuaries and the sea, but do not include entry points to the stormwater drainage network. 'Adjacent' must be defined in respective district plans and will depend on the type of [water](#) resource potentially affected (adjacent is variably defined as between 30 and 100 metres).

³ Applicable to Class 3 substances (flammable liquids) only.