

Ref No: 100.02

Subject: EPA & HSWA Qty thresholds

Date: 11.01.2021

The following tables cover the requirements from both Hazardous Substances (Hazardous Property Controls) Notice 2017 & Health and Safety at Work Hazardous Substances Regulations 2017.

Company Name:

Classes: **Flammable (Gas, Liquid & Solids), Oxidising, Toxic & Corrosive substances**  
**Threshold quantities for Hazardous substance location + Compliance certificate for areas less than 4 hectares:**

Hazard classification	Quantity beyond which controls apply (closed containers)	Max Qty
2.1.1A (LPG)	>100kg	
3.1A (Other than Petrol)	20ℓ	
3.1A (petrol/avgas)	50ℓ	
3.1B	Containers greater than 5ℓ = 100ℓ Containers less than 5ℓ = 250ℓ	
3.1C	Containers greater than 5ℓ = 500ℓ Containers less than 5ℓ = 1500ℓ	
4.1.1A	1kg (see Table 4 Sch 9)	
4.1.1B	100kg	
5.1.1A (Used)	50kg/ ℓ	
5.1.1B (Used)	500kg/ ℓ	
5.1.1C (Used)	1000kg/ ℓ	
5.1.1C	3000kg or 3000litres (if stored on a farm >4ha)	
<b>5.1.1C Nitric Acid 65-70%</b>	<b>HSR100763 Does not require a LCC (see Reg 12.8 (6))</b>	<b>N/A</b>
6.1A (Liquid or Solid)	50ℓ or 50kg	
6.1B (Liquid or Solid)	250ℓ or 250kg	
6.1C (Liquid or Solid)	1000ℓ or 1000kg	
8.2A (Liquid or Solid)	50ℓ or 50kg	
8.2B (Liquid or Solid)	250ℓ or 250kg	

**Threshold quantities for Hazardous substance location + Compliance certificate for farms that are being farmed and are greater than 4 hectares:**

Hazard classification	Quantity beyond which controls apply (closed containers)	Max Qty
3.1A (Petrol)	2000ℓ	
6.1A (Liquid or Solid)	100ℓ or 100kg	
6.1B (Liquid or Solid)	500ℓ or 500kg	
6.1C (Liquid or Solid)	3500ℓ or 3500kg	
8.2A (Liquid or Solid)	500 ℓ or 500 kg	
8.2B (Liquid or Solid)	3500ℓ or 3500kg	

**Threshold quantities that require fire extinguishers:**

Hazard classification	Description	Quantity	No	Max Qty
2.1.1A(LPG)	Gas (30B Type) or 20mm fire hose to reach all sides.	50kg	1	
3.1A	Liquid (30B Type)	50ℓ	1	
		200ℓ	2	
3.1B	Liquid	250ℓ	2	
3.1C, 3.1D	Liquid	500ℓ	2	
5.1.1A	Liquid and or Solid	5ℓ or 5kg	1	
	Liquid and or Solid	25ℓ or 25kg	2	
5.1.1B	Liquid and or Solid	200ℓ or 200kg	1	
	Liquid and or Solid	500ℓ or 500kg	2	
5.1.1C	Liquid and or Solid	500ℓ or 500kg	2	

**Threshold quantities for emergency response plan:**

Hazard classification	Description	Quantity	Max Qty
2.1.1A (LPG)	Gas	>300kg	
3.1A	Liquid	100ℓ	
3.1B	Liquid	1000ℓ	
3.1C & 3.1D	Liquid	10,000ℓ	
5.1.1A	Liquid or Solid	50ℓ or 50kg	
5.1.1B	Liquid or Solid	500ℓ or 500kg	
5.1.1C	Liquid or Solid	5000ℓ or 5000kg	
<b>6.1A, 6.1B, 6.1C</b>	<b>Liquid or Solid</b>	<b>100ℓ or 100kg</b>	
6.1D, 6.5A, 6.5B, 6.7A	Liquid or Solid	1000ℓ or 1000kg	
6.6A, 6.7B, 6.8A, 6.9A	Liquid or Solid	10,000ℓ or 10,000kg	
8.2A	Liquid or Solid	100ℓ or 100kg	
8.2B	Liquid or Solid	1000ℓ or 1000kg	
8.2C, 8.3A	Liquid or Solid	100ℓ or 100kg	
<b>9.1A</b>	<b>Liquid or Solid</b>	<b>100ℓ or 100kg</b>	
9.1B, 9.1C	Liquid or Solid	1000ℓ or 1000kg	
9.1D	Liquid or Solid	10,000ℓ or 10,000kg	

**Incompatible substances and materials:**

Hazard classification	Incompatible substances and materials
5.1.1 & 5.1.2	Classes 1, 2, 3, 4, 5.2, 6.1A, 6.1B, 8 & 9.1 substances
6.1A, 6.1B, 6.1C	Classes 1 & 5 substances
8.2A & 8.2B	Classes 1, 4.3A, 4.3B, 4.3C, 5, 6.1A, 6.1B & 6.1C 8.2A & 8.2B corrosive alkalis
8.2A & 8.2B	Classes 1, 4.3A, 4.3B, 4.3C & 5, 8.2A & 8.2B corrosive acids
9.1	Classes 1 & 5

### ***Separation distance in metres for Class 5 from incompatible substances***

<b>Hazard Classification</b>	<b>Qty</b>	<b>Minimum Distance from incompatible substances (m)</b>
5.1.1A	Up to 1000kg/L	5
	More than 1000kg/L up to 10,000kg/L	8
	More than 10,00kg/L	10
5.1.1B	Up to 1000kg/L	3
	More than 1000kg/L up to 10,000kg/L	5
	More than 10,00kg/L	8
5.1.1C	More than 1000kg/L up to 10,000kg/L	3
	More than 10,00kg/L	5

### ***Quantities of substances that require signage:***

<b>Hazard classification</b>	<b>Description</b>	<b>Quantity</b>	<b>Max Qty</b>
<b>2.1.1A (LPG)</b>	<b>Gas</b>	<b>50kg inside</b>	
<b>2.1.1A (LPG)</b>	<b>Gas</b>	<b>250kg outside</b>	
<b>3.1A</b>	<b>Liquid</b>	<b>50ℓ</b>	
3.1B	Liquid or Solid	250ℓ or 250kg	
3.1C	Liquid or Solid	1000ℓ or 1000kg	
3.1D	Liquid	10,000ℓ	
5.1.1A	Liquid or Solid	50ℓ or 50kg	
5.1.1B	Liquid or Solid	500ℓ or 500kg	
5.1.1C	Liquid or Solid	1000ℓ or 1000kg	
<b>6.1A</b>	<b>Liquid or Solid</b>	<b>50ℓ or 50kg</b>	
<b>6.1B</b>	<b>Liquid or Solid</b>	<b>250ℓ or 250kg</b>	
<b>6.1C</b>	<b>Liquid or Solid</b>	<b>1000ℓ or 1000kg</b>	
6.1D	Liquid or Solid	10,000ℓ or 10,000kg	
8.1A	Liquid or Solid	1000ℓ or 1000kg	
8.2A	Liquid or Solid	50ℓ or 50kg	
8.2B	Liquid or Solid	250ℓ or 250kg	
8.2C, 8.3A	Liquid or Solid	1000ℓ or 1000kg	
<b>9.1A</b>	<b>Liquid or Solid</b>	<b>100ℓ or 100kg</b>	
9.1B, 9.1C	Liquid or Solid	1000ℓ or 1000kg	
9.1D	Liquid or Solid	10,000ℓ or 10,000kg	

### **Definition of a Protected Place—**

(i) a dwelling, residential building, place of worship, public building, school or college, hospital, child care facility, or theatre, or any building or open area in which persons are accustomed to assemble in large numbers, whether within or outside the property boundary of a place where a hazardous substance location is situated:

(ii) any factory, workshop, office, store, warehouse, shop, or building where persons are regularly employed, whether within or outside the property boundary of a place where a hazardous substance location is situated:

(b) does not include a small office or other small building associated with a place where storage, handling, use, manufacture, or disposal of a class 2, 3, 4, 5, 6, or 8 substance is a major function.

### **Definition of a Public Place-**

(a) means a place (other than private property or a protected place) that is open to, and frequented by, the public; and

(b) includes a public road

### **Minimum separation distances from stores where packages REMAIN CLOSED to protected places.**

#### **Minimum distance in metres**

<b>Quantity (kg/L)</b>	<b>6.1A</b>	<b>6.1B</b>	<b>6.1C</b>
>50 ≤250	5	N/A	N/A
>250 ≤1000	5	3	N/A
>1000 ≤10 000	8	5	5

### **Minimum separation distances from stores where packages REMAIN CLOSED to protected places for class 8.2A is 5 metres 8.2B is 3 metres.**

#### **Separation distance in metres for **LPG****

<b>Quantity (kg/L)</b>	<b>Public Places</b>	<b>Protected place</b>
100-300 kg	n/a	2m
500kg	2m	2m
2000kg	3m	3m

### Threshold quantities for secondary containment:

Hazard classification	Quantity litres	Max Qty
3.1A	100ℓ	
3.1B	1000ℓ	
3.1C, 3.1D	10,000ℓ	
5.1.1A	50ℓ	
5.1.1B	500ℓ	
5.1.1C	5000ℓ	
<b>6.1A, 6.1B, 6.1C</b>	<b>100ℓ</b>	
6.1D, 6.5A, 6.5B, 6.7A	1000ℓ	
6.6A, 6.7B, 6.8A, 6.9A	10,000ℓ	
8.2A	100ℓ	
8.2B	1000ℓ	
8.2C, 8.3A	10,000ℓ	
<b>9.1A</b>	<b>100ℓ or 100kg</b>	
9.1B, 9.1C	1000ℓ or 1000kg	
9.1D	10,000ℓ or 10,000kg	

### Containment/Bunding requirements:

Containment or bunding can be done using a number of methods, these maybe a concrete retaining lip, glue on rubber block for building perimeter, plastic containers cut down to form trays as method of containing any spillage.

Container Size	Total Volume in litres	Containment by volume required
Up to 60 litres	Less than 20000 litres	least 25% of that total pooling potential:
Up to 60 litres	20000 litres or more	the secondary containment system must have a capacity of the <b>greater of</b> — (i) 5% of the total pooling potential; or (ii) 5 000 L.
60 litres and up to 450 litres	Less than 20000 litres	the secondary containment system must have a capacity of the <b>greater of</b> — (i) 25% of the total pooling potential; or (ii) 110% of the capacity of the largest container:
60 litres and up to 450 litres	20000 litres or more	the secondary containment system must have a capacity of the <b>greater of</b> — (i) 5% of the total pooling potential; or (ii) 5 000 L.
More than 450 litres	Less than 5000 litres	the secondary Containment system must have a capacity of at least that total pooling potential.
More than 450 litres	More than 5000 litres	the secondary containment system must have a capacity of the <b>greater of</b> — (i) 5 000 L; and (ii) 50% of that total pooling potential.