

Table 1: Comparison of Permitted Hazardous Substance Quantities

Hazardous Substance at Mercy Hospital	Proposed Dunedin City District Plan	Existing Dunedin City District Plan	HSNO – Test Certificate Requirements <sup>1</sup>	Other Plans
Flammable liquids – diesel 5,200L Above ground, double skin steel	<sup>2</sup> Class 3.1D - Certified Double skin tanks: 600L	Class 3(c) outside storage - 2000L <sup>3</sup>	<b>HSNO Class 3.1D</b> Location Test Certificate Not Required.  A Stationary Container System Test Certificate is required for: an above ground tank of more than 5,000 litres holding hazardous substances other than those which are highly flammable such as diesel, caustic soda and acids.	Central Otago District Plan <sup>4</sup> (class 3c) Residential and Rural Settlements: 1200L.  Waitaki District Plan <sup>5</sup> (class 3c) Residential and Rural Zones: 3000L.  Christchurch City Plan <sup>6</sup> (class 3.3) Living Zones: 1000L.  Waimakariri District Plan <sup>7</sup> (class 3c) Residential Zones or within 75m of any Residential Zone and Mapleham Rural 4B Zone: 10,000L.  Wairarapa Combined District Plan <sup>8</sup> (subclass 3.1D) Residential Zone: <1 tonne.
Flammable gases: Acetylene in Plant Room 5 1.45m <sup>3</sup>	<sup>9</sup> Class 2.1.1A - no threshold specified for Residential Zones – assume 0	Class 2(c) - 2m <sup>3</sup> at STP	<b>HSNO Class 2.1.1A</b> Location Test Certificate: 100 kg (or 100m <sup>3</sup> where a permanent gas)	Central Otago District Plan (class 2.1b) Residential and Rural Settlements: 250L.  Waitaki District Plan (class 2.1b) Residential and Rural Zones: 250L.  Christchurch City Plan (class 2.1.2) Living Zones: 100kg.  Waimakariri District Plan: permitted with no threshold.  Wairarapa Combined District Plan (class 2.1 all) Residential Zone: <0.02 tonne / 40m <sup>3</sup> STP.
Flammable liquids: AS1940 Cabinet with various solvents < 100L	<sup>10</sup> Class 3.1B - 10L	Class 3(a) / 3(b) in protected work or attached structure (includes hospital) - 200L <sup>11</sup>	<b>HSNO Class 3.1B</b> Location Test Certificate: Open containers: >50 litres Closed containers >5litres: >100 litres Closed containers <5litres: >250 litres	Central Otago District Plan (class 3a / 3b) Residential and Rural Settlements: flash point <23°C = 50L <sup>2</sup> ; flash point ≥ 23°C; or <61°C = 1200L  Waitaki District Plan (class 3a / 3b) Residential

<sup>1</sup> Environmental Protection Authority online (2011) *Key HSNO controls: Thresholds quantities guide*.

<sup>2</sup> Flammable liquids (stored above ground in containers >450 litres): Class 3.1D Liquid Low hazard (FP>60°C, but <93°C)

<sup>3</sup> Approved containers; full compounding within 100m of any lake or river, the coastal marine area, or any groundwater protection zone identified in the Regional Plan: Water (2000).

<sup>4</sup> Operative 1 April 2008.

<sup>5</sup> Operative (in part) 12 July 2004.

<sup>6</sup> Operative (in part) 16 November 2009.

<sup>7</sup> Operative 28 November 2005.

<sup>8</sup> Proposed – notified 26 August 2006

<sup>9</sup> Gases and aerosols: 2.1.1A High hazard gases.

<sup>10</sup> Flammable liquids (stored above ground in containers ≤450 litres): 3.1B Liquid High hazard (FP<23°C, IBP>35°C)

<sup>11</sup> Class 3(a) - securely closed, approved - 5 litres or less; Class 3(b) - securely closed, approved - 20 litres or less; together maximum quantity of Class 3(a) + 3(b) not greater than 200 litres.

				<p>and Rural Zones: flash point &lt;23°C = 50L<sup>2</sup>; flash point 23°C; &lt;61°C = 3000L.</p> <p>Christchurch City Plan (class 3.1 / 3.2) Living Zones: flash point &lt;23°C = 50L; flash point &gt;23°C; &lt;61°C = 100L.</p> <p>Waimakariri District Plan (class 3a) Residential Zones or within 75m of any Residential Zone and Mapleham Rural 4B Zone: 2000L.</p> <p>Wairarapa Combined District Plan (subclass 3.1B) Residential Zone: &lt;0.1 tonne.</p>
Oxidising gases: Oxygen in cylinders 225m <sup>3</sup>	<sup>12</sup> Class 5.1.2A - 5.5m <sup>3</sup>	Class 5(a) – 10kg	<p><b>HSNO Class 5.1.2A</b> Location Test Certificate: 100 kg (where a non-permanent gas) or 200 m<sup>3</sup> (where a permanent gas)</p>	<p>Central Otago District Plan (class 5.1) Residential and Rural Settlements: 100kg.</p> <p>Waitaki District Plan (class 5.1) Residential and Rural Zones: 100kg.</p> <p>Christchurch City Plan (class 5.1) Living Zones: 50kg.</p> <p>Waimakariri District Plan: Permitted with no threshold.</p> <p>Wairarapa Combined District Plan (subclass 5.1.2A) Residential Zone: &lt;40 tonnes.</p>
Oxidising gases: Oxygen in Plant Room 5 3.6m <sup>3</sup>	<sup>13</sup> Class 5.1.2A - 5.5m <sup>3</sup>	Class 5(a) – 10kg	<p><b>HSNO Class 5.1.2A</b> Location Test Certificate: 100 kg (where a non-permanent gas) or 200 m<sup>3</sup> (where a permanent gas)</p>	<p>Central Otago District Plan (class 5.1) Residential and Rural Settlements: 100kg.</p> <p>Waitaki District Plan (class 5.1) Residential and Rural Zones: 100kg.</p> <p>Christchurch City Plan (class 5.1) Living Zones: 50kg.</p> <p>Waimakariri District Plan: Permitted with no threshold.</p> <p>Wairarapa Combined District Plan (subclass 5.1.2A) Residential Zone: &lt;40 tonnes.</p>
Oxidising gases: LOX in 1 x 897kg + 1 x 315kg mega-cylinders 438m <sup>3</sup>	<sup>14</sup> Class 5.1.2A - 5.5m <sup>3</sup>	As required for medical use.	<p><b>HSNO Class 5.1.2A</b> Location Test Certificate: 100kg (where a non-permanent gas) or 200m<sup>3</sup> (where a permanent gas)</p>	<p>Central Otago District Plan (class 5.1) Residential and Rural Settlements: 100kg.</p> <p>Waitaki District Plan (class 5.1) Residential and Rural Zones: 100kg.</p> <p>Christchurch City Plan (class 5.1) Living Zones:</p>

<sup>12</sup> Oxidising substances: 5.1.2A Gases: Oxygen.

<sup>13</sup> Oxidising substances: 5.1.2A Gases: Oxygen.

<sup>14</sup> Oxidising substances: 5.1.2A Gases: Oxygen.

				<p>50kg.</p> <p>Waimakariri District Plan: Permitted with no threshold.</p> <p>Wairarapa Combined District Plan (subclass 5.1.2A) Residential Zone: &lt;40 tonnes.</p>
Organic Peroxide: Steris 20 concentrate 70kg	<sup>15</sup> Class 5.2E - 0.5L	Class 5(b) - 0.5 kg or 0.5 litres	<p><b>HSNO Class 5.2E</b></p> <p>Location Test Certificate: More than 100 kg</p>	<p>Central Otago District Plan (class 5.2) Residential and Rural Settlements: 5kg.</p> <p>Waitaki District Plan (class 5.2) Residential and Rural Zones: 5kg.</p> <p>Christchurch City Plan (class 5.2) Living Zones: 1kg.</p> <p>Waimakariri District Plan: Permitted with no threshold.</p> <p>Wairarapa Combined District Plan (subclass 5.2(all)) Residential Zone: &lt;0.02 tonnes.</p>

<sup>15</sup> Oxidising substances: 5.2A-G Organic Peroxide: Types A-G.

