



## ***Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations***

### **PERC Pointer #5**

**Prevent  
spills!**



### **Is Your Secondary Containment System Large Enough?**

Your secondary containment system must be able to hold a volume greater than or equal to 110% of the largest tank or storage container and cover at least the entire surface under each dry-cleaning machine, tank or container.

For more information,  
please see our website  
[www.ec.gc.ca/regs-tetra](http://www.ec.gc.ca/regs-tetra)



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Please contact your regional Environment Canada office if you have any questions or concerns:

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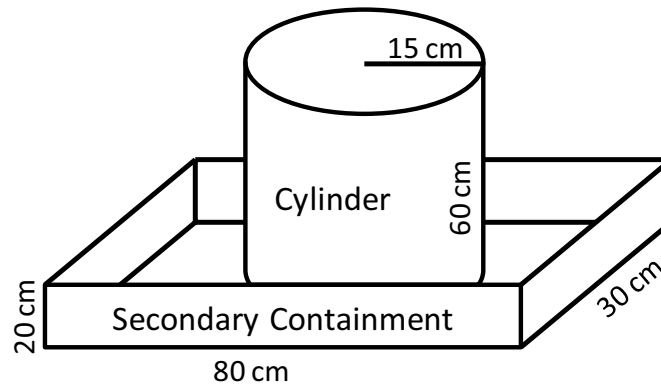
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Also available in French, Persian, Chinese (traditional), Punjabi and Korean.

To determine if your secondary containment system is large enough, you will need to **calculate**:

- ⇒ the **volume of your largest container**; and
- ⇒ the **volume of your secondary containment system**.



Example Calculations

**Cylinder Size:**

Height (H) = 60 cm, \* Radius (R) = 15 cm

**Cylinder Volume**

$$= H \times \pi \times R^2 = H \times \pi \times R \times R$$

$$= 60 \text{ cm} \times 3.14 \times 15 \text{ cm} \times 15 \text{ cm}$$

$$= 42\,390 \text{ cm}^3 \text{ [} 1000 \text{ cm}^3 = 1 \text{ Litre]}$$

$$= \mathbf{42.4 \text{ Litres}}$$

**Secondary Containment Size:**

Height (H) = 20 cm, Length (L) = 80 cm, Width (W) = 30 cm

**Secondary Containment Volume = H x L x W**

$$= 20 \text{ cm} \times 80 \text{ cm} \times 30 \text{ cm}$$

$$= 48\,000 \text{ cm}^3 \text{ [} 1000 \text{ cm}^3 = 1 \text{ Litre]}$$

$$= \mathbf{48.0 \text{ Litres}}$$

\*Use centimetres or inches, be careful not to mix measurements.

**Will your secondary containment hold 110% of the volume of the container (cylinder)?**

**Divide** Secondary Containment Volume **by** Cylinder Volume

$$48.0 \text{ L} \div 42.4 \text{ L} = 1.13 \times 100\% = \mathbf{113\%}$$

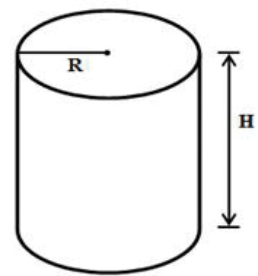
**113% is greater than 110% (Yes!)**

**Regulatory Compliance**

Environment Canada undertakes regular inspections in order to verify compliance with the requirements of the *Canadian Environmental Protection Act, 1999* and its regulations. Investigations are conducted when there are reasonable grounds to believe that a violation has occurred. In situations of non-compliance, enforcement officers may issue a warning or an environmental protection compliance order, proceed with prosecution, or take some other enforcement action, depending on the circumstances (see the *Compliance and Enforcement Policy for the Canadian Environmental Protection Act, 1999* at [www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=5082BFBE-1](http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=5082BFBE-1)).

Where an officer proceeds with prosecution and a conviction is obtained, the Court may order a fine and/or imprisonment. In 2012, maximum fines were increased and mandatory minimum fines were introduced for certain specified offences. For further information, consult Environment Canada's website at [www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=66B8D849-1](http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=66B8D849-1).

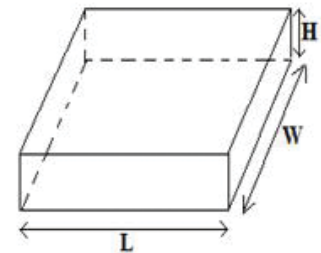
**Volume of a Cylinder**



**Volume = H x π x R<sup>2</sup>**

H = height of the cylinder  
π (Pi) = 3.14  
R = radius of the base circle

**Volume of a Box**



**Volume = H x L x W**

H = height  
L = length  
W = width