Environment Canada Environnement Canada

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

Canada

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

Newfoundland and Labrador, Prince Edward Island, Nova Scotia, New Brunswick
902-426-8679
EnvCanAtlRegs@ec.gc.ca

Quebec
514-283-7305
lcpe.info.cepa-qc@ec.gc.ca

Ontario
416-739-4976
compliance.promotion.ontario@ec.gc.ca

Manitoba, Saskatchewan, Alberta, Northwest Territories, Nunavut
780-951-8890
pnrcompliancepromotion@ec.gc.ca

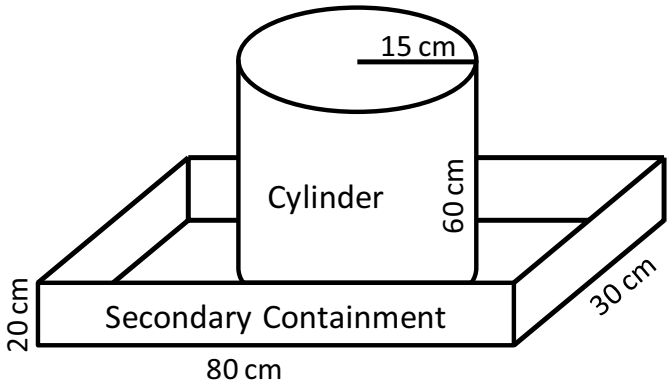
British Columbia, Yukon
604-666-9862
DryClean-PYR@ec.gc.ca

Environment Canada Inquiry Centre
1-800-668-6767

ISBN: 978-1-100-25364-0
Cat. No.: En14-206/5-2014E-PDF

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

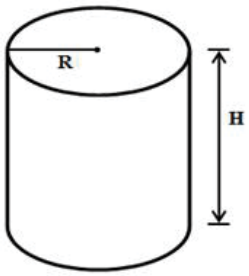
Cylinder Volume
= H x π x R^2 = H x π x R x R
= 60 cm x 3.14 x 15 cm x 15 cm
= 42 390 cm^3 [1000 cm^3 = 1 Litre]
= 42.4 Litres

Secondary Containment Size:
Height (H) = 20 cm, Length (L) = 80 cm, Width (W) = 30 cm

Secondary Containment Volume = **H** x **L** x **W**
= 20 cm x 80 cm x 30 cm
= 48 000 cm^3 [1000 cm^3 = 1 Litre]
= 48.0 Litres

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

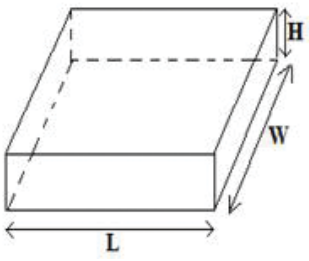
Volume of a Cylinder



Volume = **H** x **π** x **R^2**

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

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

Divide Secondary Containment Volume **by** Cylinder Volume
48.0 L ÷ 42.4 L = 1.13 x 100% = **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).

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.