

## IN CASE OF MERCURY SPILL

Use:

Spilfyter Mercury Spill Kit (Capable of cleaning up to 25 mL of mercury)

Contents:

270 g Amalgamation Powder	(1) Aspirator Bottle
250 g Indicator Powder	(1) Mixing Tub with Spatula
(1) Vapor Suppressor, Shaker Bottle	(1) Wisk or Pan
(1) Waste Collection Bottle	(1) Pair Nitrile Gloves and Goggles
(1) Chemical Sponge	
(1) Disposal Bag and Twist Tie	

### PROCEDURE:

1. Evacuate employees from spill area.
2. Put on appropriate personal protection equipment for exposure to mercury (i.e. gloves, goggles, lab coat, respirator or mask).
3. Ventilate the contaminated area.
4. Shake the vapor suppressor over the contaminated area being sure to cover any visible mercury.
5. Collect all vapor suppressor covered mercury using the wooden spatula and the mercury aspirator bottle. Wait 30 minutes before final clean-up.
6. Empty the aspirator bottle into the mercury waste bottle.
7. Activate the MERCSORB® Amalgamation Powder with two (2) ounces (60 grams) powder in a plastic mixing cup. Apply just enough water to form a paste (about 1 ounce or 30 mL). Mix the MERCSORB® Powder and water with a wooden spatula.
8. Apply a strip of the MERCSORB® paste across the edge of the mercury contaminated area. Push the strip slowly across the contaminated surface with a wooden spatula. Apply the MERCSORB® paste in one direction only. Small droplets of mercury will be adsorbed in the MERCSORB® paste.
9. Apply a second strip of the MERCSORB® paste to the area and push the strip across the area a second time.
10. Place the contaminated MERCSORB® paste into a sealed plastic container.
11. Scrub the contaminated area using a moist sponge and warm soapy water.
12. Dispose of the used items and products in accordance with all the regional, provincial and federal regulations.
13. After all visible mercury has been properly collected from horizontal surface: sprinkle Mercury Indicator Powder over contaminated area. For vertical surfaces, mix one part Mercury Indicator Powder with four parts water to form a slurry. Paint the slurry on the contaminated vertical surface.

14. Mercury Indicator Powder should be left undisturbed on the contaminated surface for 24 hours.
15. A colour change of pink to reddish-brown spots indicates contamination. Large black spots or areas indicate fresh or extensive mercury contamination.
16. Collect the Mercury Indicator Powder and place in a temporary disposal bag.
17. Clean up remaining mercury contaminated area with physical and chemical means.
18. Repeat steps 12 – 16 until no indication of mercury is observed.
19. All used products are contaminated and must be disposed of as toxic waste in accordance to regional, provincial and federal regulations.

Any used pieces of the spill kit must be replaced **immediately**.

For more information on mercury, please refer to the following link:

[http://www.ccohs.ca/oshanswers/chemicals/chem\\_profiles/mercury.html](http://www.ccohs.ca/oshanswers/chemicals/chem_profiles/mercury.html)