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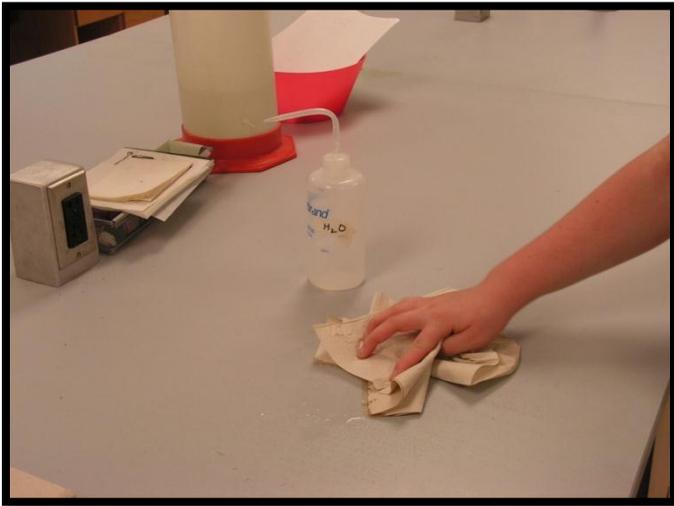
SPILL CONTAINMENT & MERCURY CLEAN UP

TEXAS A&M – COMMERCE
FALL 2014

Mercury

Clean up spills as soon as they happen. Report the spill to your lab instructor. If the spill is only water, clean it up with paper towels. You may find yourself doing this often around lab bench sinks.

You should wear your gloves when working with ANY spill.



**SPILL
CONTAINMENT**



You should wear your gloves when working with ANY spill.

Larger (less than 1L) spills should be contained with the spill kit. The kit has a boom to dam/contain the spill and absorbent pads. There is also a plastic bag to put everything in after the spill is cleaned up. You should not attempt to clean up the spill just contain it and get one of the Lab Coordinators to clean the area to neutralize the chemical(s).



SPILL CONTAINMENT

If it is a VERY large (>1 liter) or dangerous spill, contain it with the spill kit if you can, at the same time immediately evacuate the lab and use the emergency phone. The Department of Safety will come and clean up the spill.

SPILL CONTAINMENT



Mercury SPILL CONTAINMENT

Personal protective equipment (PPE) include gloves and goggles

If it is a very large spill, wear a mask or respirator

Before you put on your PPE take off ALL metal (jewelry, glasses...)

**Mercury SPILL
CONTAINMENT PPE**

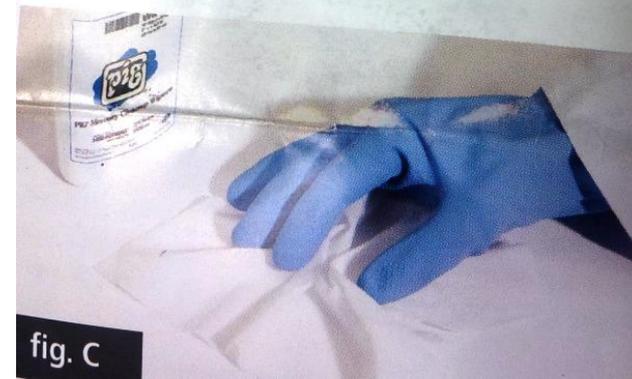


Mercury SPILL INSTRUCTIONS

Instructions

The absorbent powder contained in this PIG Mercury Spill Kit will bond with droplets of mercury, transforming them into a solid material and making handling and disposal safer.

1. Remove jewelry, eyewear and all other metal objects. Put on appropriate personal protective equipment (PPE, supplied in this spill kit) prior to entering the spill area.
2. Sprinkle PIG Mercury Absorbent Powder in a circle around the spill to prevent the mercury from spreading.
3. Gently pour more absorbent powder directly onto the spill, working from the outside inward until the mercury is completely covered. (fig. A)
4. The mercury will be completely absorbed, forming a solid material and eliminating dangerous vapors. If the mercury is not fully absorbed within 2 to 3 minutes, use the provided plastic scraper to thoroughly mix the powder with the mercury.
5. Remove the solid material by sweeping it up with the broom and dustpan found in this kit. (fig. B) Place the collected material, broom and dustpan into the provided disposal bag.
6. Use PIG Mercury Cleanup Wipers to wipe the surface and remove any residue. (fig. C)
7. Place all used wipers in the disposal bag and tie it closed. Place the bag in the spill kit container and close the lid.



Mercury SPILL NOTICES

CAUTION: Heat may be generated during absorption process.

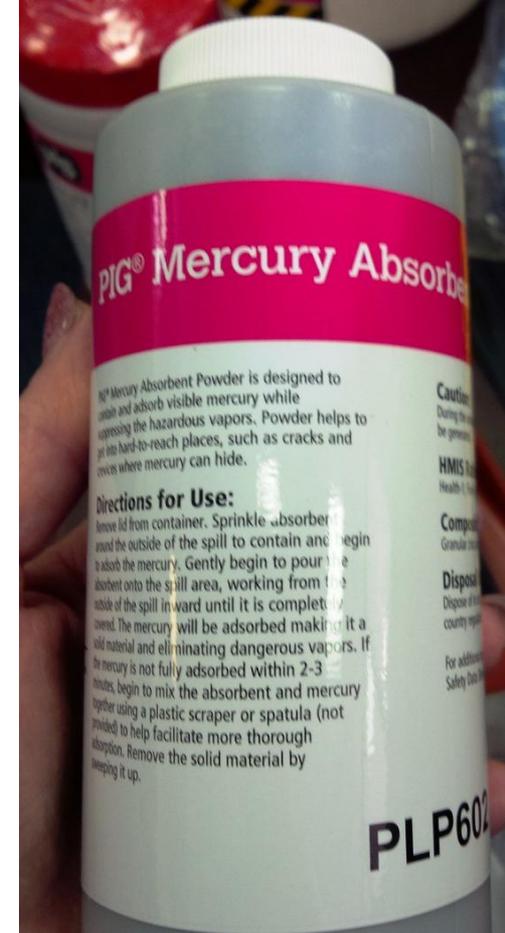
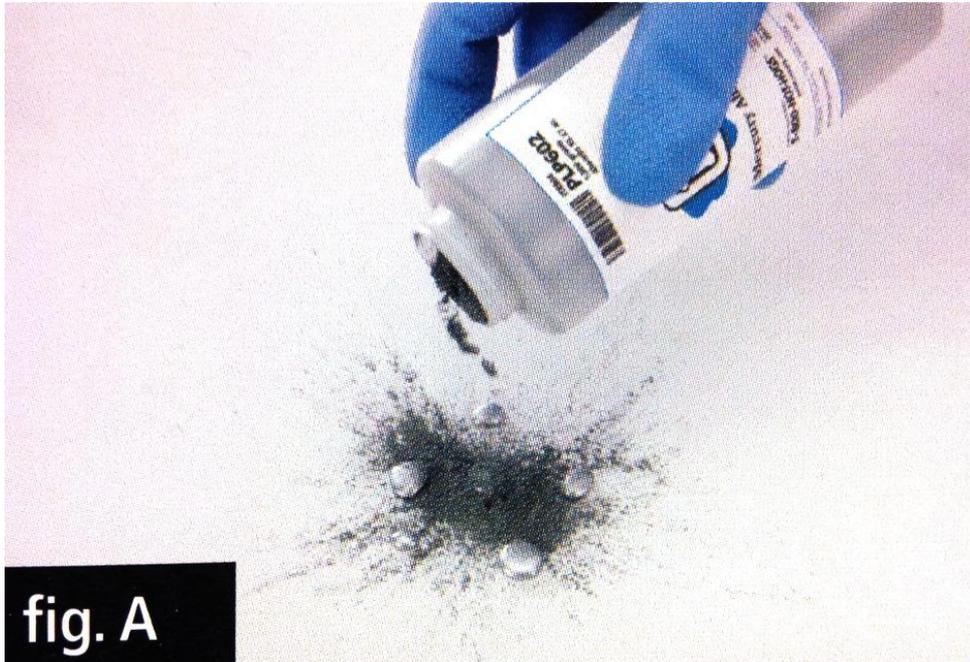
NOTE: Appropriate personal protective equipment (PPE) should be worn when treating any hazardous spills. Store product in a cool, dry and well-ventilated area, away from moisture.

DISPOSAL NOTICE: Used absorbents can be considered hazardous and must be disposed of in compliance with local, state and federal regulations. For information on disposal options, call New Pig.

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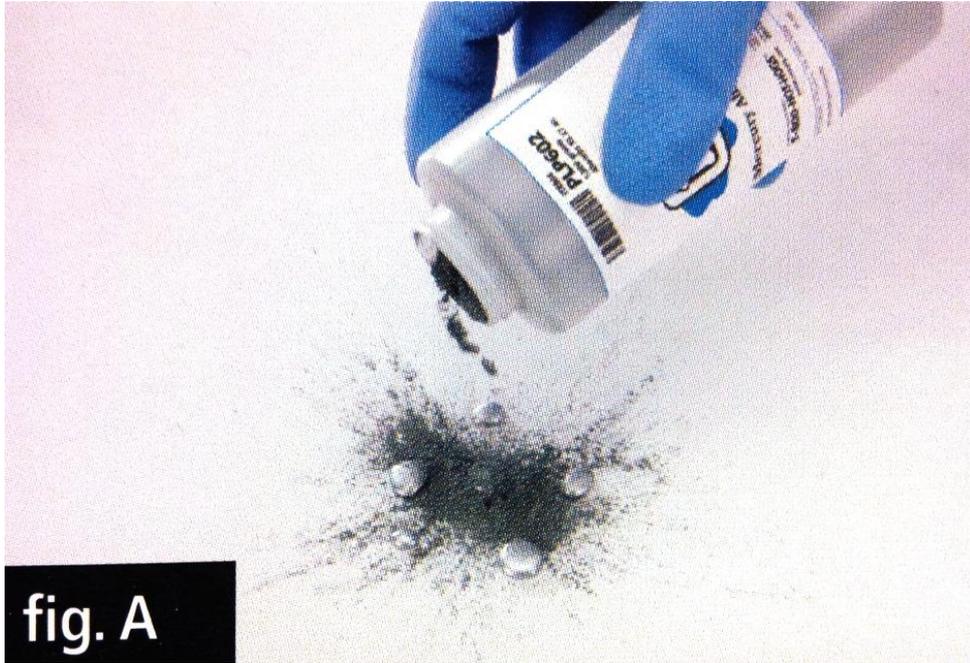
What happens to a plastic brush & dustpan when heated?

Mercury SPILL CLEANUP



#A. AFTER YOU TAKE OFF ALL METAL & PUT ON YOUR PPE
Sprinkle absorbent in a circle around the spill to prevent spreading. Gently pour more directly onto the spill, working from outside inward until the mercury is completely covered.

Mercury SPILL CLEANUP



#A. If the mercury is not completely absorbed within in 2 to 3 minutes, use the scraper to thoroughly mix.

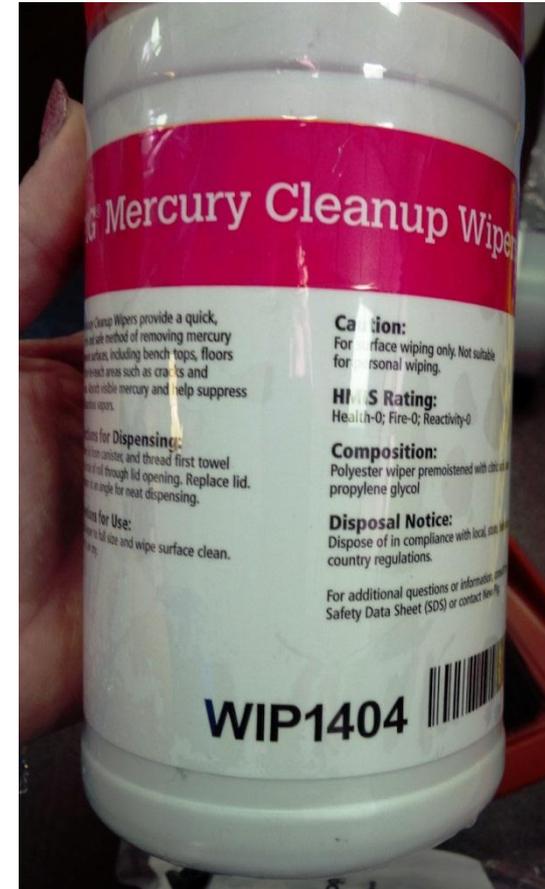
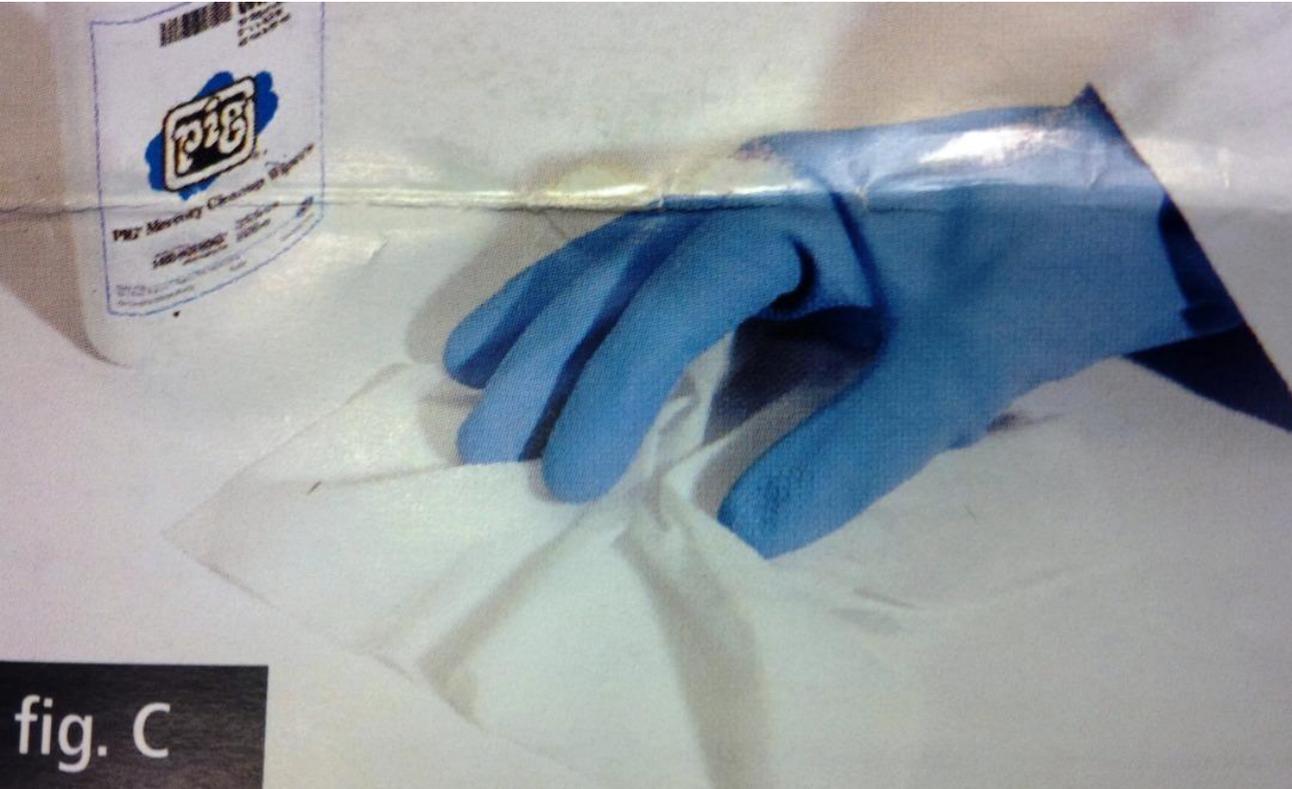
Mercury SPILL CLEANUP



fig. B

#B. Remember that the absorption process produces heat so you may need to wait a minute or so until it cools a bit before sweeping it into the provided bag using the plastic broom and dustpan.

Mercury SPILL CLEANUP



#C. Use the cleanup wipers to wipe the surface and remove any residue. Place all used wipers in the disposal bag and zip tie it closed. Place the bag in the spill container & close the lid. Contact the lab coordinator or safety officer.



Waste Management