

# Mercury Spill Kit



As the exclusive manufacturer of the Jerome® line of toxic gas analyzers, Arizona Instrument LLC now proudly introduces the complete solution for mercury spill cleanup, the Jerome® Mercury Spill Kit. Whether dealing with a large or small spill, this kit can handle the job. A mercury vacuum is also available for purchase in the event of a sizeable spill.

At Arizona Instrument, we are aware of how hazardous mercury spills are, and have developed a complete solution cleanup kit to ensure the contaminated area is cleaned in compliance with EPA regulations and standards.

If you also require mercury vapor monitoring equipment for pre-screening and post-spill cleanup, we have the Jerome® J405 Mercury Vapor Analyzer available for your convenience.

Please contact us today for more information at 800.528.7411 or [sales@azic.com](mailto:sales@azic.com).

DESCRIPTION	AZI PART NUMBER	QUANTITY
Mercury Spill Kit	Y990-0234	1
Half Mask Respirator	650-0003	1
Respirator Cartridge	650-0004	1 pack of 2

*Refer to the color coded indicator to verify they are still useable*

Nitrile Rubber Gloves	650-0005	2 pair
Safety Glasses	650-0006	1 pair
Flashlight	650-0007	1
Mercury Absorbent, 500g	650-0008	1 bottle
Hg Absorbent Jars	650-0009	2
Mercon Wipes	650-0010	1 canister

*Refer to the date code to ensure the wipes are within their 3 year shelf life*

Shoe Covers	650-0011	2 pair
Scoop and Scraper Set	650-0012	1
Liquid Aspirator	650-0013	1
Spray Bottle	650-0015	1
Plastic Bags 10"x12"	750-0020	2

*Replacement Items Available Separately*

OPTIONAL
Jerome® J405 Mercury Vapor Analyzer
Mercury Recovery Vacuum



**ARIZONA INSTRUMENT LLC**

3375 N. Delaware Street, Chandler, AZ 85225 • (602) 470-1414 • (800) 528-7411 • [www.azic.com](http://www.azic.com)

Exclusive Manufacturer of Computrac® Moisture Analyzers and Jerome® Toxic Gas Analyzers

# Cleanup Procedure:

**The 0.025 mg/m<sup>3</sup> (25µg/m<sup>3</sup>) cleanup level listed in these instructions is a general ACGIH Threshold Limit Value guideline (see AZI representative for details) for mercury spills in commercial/industrial environments. If the mercury spill is in a residential environment or requires cleanup to levels below the 0.025 mg/m<sup>3</sup> level, use a cleanup guideline appropriate to your specific situation, application or SOP/company policy.**

1. Upon being notified of a possible mercury spill, immediately go to the suspected spill area and ensure the area has been evacuated. Block any entryway into the spill area and restrict everyone from entering.
2. Locate the nearest mercury spill kit. (It may be helpful to have mercury spill kits available in several locations). Verify that the respirator cartridges are not exhausted by looking at the color coded indicator on the cartridges. Install them on the respirator if they are not already installed, then put on the respirator. Put on the nitrile rubber gloves, safety glasses and shoe covers. Take the mercury spill kit and return to the spill site.
3. Using a Jerome® 431-X or J405 with the probe in the intake, take air samples and record the readings for the spill report.
4. Turn off the facility air conditioning and heating systems in and around the spill area. Turn on any exhaust fans or fume hoods in the spill area to assist in exhausting any mercury vapor. Open any exterior doors or windows in the spill area that lead directly to outside air.
5. Install the included batteries in the flashlight, and use the flashlight to visually inspect the spilled mercury to evaluate the size and quantity of the spill. Mercury droplets tend to roll and scatter, so be sure to check an expanded area around the spill location, as well as under any objects in the vicinity. Decide on the clean-up procedure based on the size of the spill.
  - a. For a few small droplets, use the Mercon wipes, Hg Absorb Jar, or the mercury absorbent.
    - i. The Mercon wipes can be used to simply wipe up the mercury droplets.
    - ii. The Hg Absorb Jar contains a specially treated sponge that can be used to wipe up and absorb the droplets.
    - iii. The mercury absorbent should be poured on top of the spill, and then activated with water from the spray bottle in the spill kit. After activation, clean up the absorbent with the Mercon wipes, the sponge in the Hg Absorb Jar, or for large quantities of absorbent, use the scoop and scraper in the spill kit.
  - b. For a slightly larger spill, use the aspirated pump to pick up small droplets, and follow that with the Mercon wipes, Hg Absorb Jar or mercury absorbent as described above.
  - c. For a spill of 1/2 cc or more or for spills in carpeted areas, use the mercury recovery vacuum. The vacuum has already been assembled and is ready for use. The vacuum can be used to reclaim any amount of spilled mercury. If a mercury recovery vacuum is not available, contact AZI at 800-528-7411 or 602-470-1414 to obtain one.
6. Take the reclaimed mercury from the aspirator pump or the mercury vacuum jar and transfer it into an Hg Absorb Jar for disposal. Contaminated Mercon wipes and used mercury absorbent can also be placed in an Hg Absorb Jar for disposal. If the Hg Absorb Jar is not large enough, use the included plastic bags to store additional contaminated cleanup materials. Used Hg Absorb Jars should also be placed in plastic bags. Move the bagged reclaimed mercury and cleanup materials away from the spill area and apply "Contaminated" labels.
7. Using a Jerome® 431-X or J405 with the probe in the intake, take air samples at and around the cleaned up spill location. Verify the reading on the display of the Jerome® instrument is less than 0.025mg/m<sup>3</sup> (25µg/m<sup>3</sup>). If readings are above 0.025mg/m<sup>3</sup> (25µg/m<sup>3</sup>), perform the cleanup procedure again.
8. If the spill was in a carpeted area and after the carpet is cleaned it still shows readings above 0.025 mg/m<sup>3</sup> (25µg/m<sup>3</sup>), obtain a razor knife (not included) and cut out the contaminated section of carpet. Wrap the contaminated carpet in trash bags and move to an outside area.
9. Once the cleanup has been performed and the Jerome® instrument reads less than 0.025mg/m<sup>3</sup> (25µg/m<sup>3</sup>), then the cleanup is complete.
10. Dispose of the reclaimed mercury and plastic bags according to local regulations.



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