Contact names and numbers
For health questions or to get more brochures:
New York State Department of Health (NYSDOH)
(800) 458-1158 or e-mail at ceheduc@health.state.ny.us
http://www.health.state.ny.us/nysoh/ehs/mercury/index.htm

For questions about recycling and disposal:
New York State Department of Environmental Conservation (NYSDEC)
Division of Solid and Hazardous Materials
(518) 402-8633
NYSDOC Small Quantity Generator Hotline
(800) 462-6553
www.dec.ny.gov

To report a spill:
NYSDOC Spill Cleanup and Reporting Hotline
(800) 457-7362

For additional information:
NYSDOC Division of Environmental Permits, Pollution Prevention Unit
(518) 402-9469
www.dec.ny.gov

In New York City:
To report a mercury spill in a NYC Public School or to get more information about mercury, call the Department of Education Office of Environmental Health and Safety at (718) 361-3808.
To report a mercury spill in a private NYC school call 3-1-1 and ask to be connected to the Department of Environmental Protection (DEP) HazMat.

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NOTE: These brochures are intended to provide information and lessons learned. They are not intended to replace school district requirements for training and personal protective equipment.

One winter morning, a substitute fifth grade teacher briefly left a science classroom of 25 students. Upon returning, the teacher found “billions” of silvery beads of mercury on every horizontal surface: desks, chairs, shelves, windowills, carpeting, backpacks and even on students...
Someone had taken a jar of liquid mercury from a storage cabinet and several students had tossed mercury at each other and all over the room. Everything in the room was contaminated. The students were evacuated and had to be decontaminated. Many of the students’ personal belongings such as clothing, sneakers, backpacks and purses required proper disposal as hazardous waste. Parents were called and asked to bring a change of clothing for their child. The classroom remained closed for about three months while arrangements were made for contractor cleanup and disposal. In all, the mercury cleanup cost $24,000.

When something is spilled or questions arise about school equipment, buildings and grounds experts are called in. If the spill is mercury, the cleanup can quickly become time-consuming and costly. Mercury spills can be difficult to clean up and can cause health effects in people who are exposed.

Reducing mercury in schools is an important goal for buildings and grounds personnel, science teachers, health and safety committees, school boards, superintendents, principals, school nurses, parents and students. This brochure will help you find mercury sources in your school and avoid potential spills.

What is Mercury?

Mercury is an element that occurs naturally in the earth's surface. The form of mercury that poses an exposure concern in schools is known as elemental mercury, or simply, mercury. Mercury is a silvery, liquid metal that releases mercury vapor into the indoor air at room temperature. It is fascinating to children because it easily breaks up into many smaller droplets. Mercury is a concern for human health and for the environment. It does not degrade and is not destroyed by burning, which is why proper disposal and recycling are essential.

Mercury Exposure is a Health Concern

Spilled liquid mercury is a health concern. The central nervous system is probably the most sensitive target organ for mercury vapor exposure. Mercury vapors can affect different areas of the brain, resulting in a variety of symptoms. Some symptoms from exposure to high levels of mercury vapor, or from long-term exposure to low levels, can include memory loss, headache, sleeplessness, irritability and tremors. Short-term exposure to high levels can also cause coughing, shortness of breath, chest pain, nausea, vomiting, diarrhea, fever, high blood pressure and skin rashes. Young children’s exposure to mercury is of particular concern because their nervous systems are still developing.

Exposure to elemental mercury can occur by breathing mercury vapors, eating or swallowing contaminated food or drinks, or having skin contact with liquid mercury. After a spill, the primary health concern is from breathing in mercury vapors. Since mercury vapor is colorless and odorless, people are not aware that the indoor air contains mercury or that they are breathing mercury vapor. The exposure can last a long time if the spill is not properly cleaned up. Just a few drops of mercury can produce harmful vapor levels in enclosed spaces such as rooms or vehicles.

Mercury Sources in Schools

Instruments containing mercury can be found virtually anywhere on school property—in the nurse’s office, science rooms, gymnasiums, art rooms and boiler rooms. Liquid mercury is used in instruments that measure temperature (thermometers), pressure (barometers or sphygmomanometers), humidity (hygrometers), vacuum (laboratory manometers), flow (water meters) and air speed (anemometers). Mercury can also be found in lights (particularly gymnasium and fluorescent lights), thermostats, heating/ventilation and air conditioning (HVAC) systems, plumbing systems, cafeteria equipment, medical devices, regulators, gauges and science room equipment.

Sometimes children or adults who are unaware of the hazard bring mercury into schools as a novelty, for demonstrations or as part of cultural rituals. Contractors, guest speakers, parents, staff or students might bring mercury-containing devices into the school.

Brochures in this series

- Mercury and Schools: A Risky Combination
- Reducing Mercury in Schools: Superintendents, Principals, and School Boards
- Reducing Mercury in Schools: Science Teachers
- Reducing Mercury in Schools: Buildings and Grounds Superintendents
- Reducing Mercury in Schools: Health and Safety Committees
- Reducing Mercury in Schools: School Nurses
- Facility-Wide Inventory of Mercury and Mercury-Containing Devices
- Guidelines for Cleanup of Mercury Spills
- Disposal and Recycling Options for Mercury and Mercury-Containing Devices