

MANAGING PCBs IN SCHOOLS

POLYCHLORINATED BIPHENYLS (PCBs)

PCBs are a group of chemicals that were commonly used in electrical and construction. Unfortunately, they affect human health and the environment.



PCBs were banned in 1979, but many schools built or renovated between 1980 and 1979 still contain PCBs.

PCBs take a very long time to break down in the environment. Between 1980 and 1979, many building materials like light fixtures, paint, adhesives, window glazing and even textbooks used PCBs.



It is estimated that between 1 and 10% of the schools built or renovated between 1980 and 1979 may have overhead materials containing PCBs.

WHY ARE PCBs A PROBLEM?

PCBs build up in the fat and organs.



We are all exposed to small amounts of PCBs through our diet because they are also occurring around us in things that make us afraid. PCBs are not a health threat, but they may affect our health. Some of the health effects that may be caused by PCB exposures include:



Developmental problems in children, cancer, problems in the immune system and in the endocrine system.

Pregnant teachers and staff are a concern because exposure to high levels of toxic chemicals during pregnancy may affect the developing fetus.

HOW DO WE KNOW IF OUR SCHOOL CONTAINS HARMFUL LEVELS OF PCBs?

Four school years (built between 1980 and 1979) and there is concern that PCBs are present, the EPA recommends implementing lead assessment practices. If there is still concern, test the air, floor and building materials and identify high priority areas. Since PCBs are present when testing shows they are not.

HOW CAN CHILDREN AND STAFF BE EXPOSED TO PCBs IN SCHOOLS?

When PCB-containing building materials age, they may release PCBs into dust on surfaces, or into the air.



Children and staff can be exposed by:

- inhaling PCBs in the air into their lungs,
- touching contaminated surfaces and absorbing PCBs through the skin,



- getting their hands in their mouths and ingesting leading PCBs in dust.

WHAT CAN WE DO ABOUT PCBs IN SCHOOLS?

The most effective thing you can do is safely remove the materials that contain PCBs. Adopting good building management practices will also reduce PCBs.

- Remove old fluorescent light fixtures that contain PCBs.
- It is possible to remove other building materials that will further reduce PCBs.
- Prior to renovations, remove the EPA lead-based paint test kit for identifying lead-based paint in schools and other buildings.
- Increase building ventilation.
- Lead paint removals use lead management practices to lower PCBs on surfaces under dust.



START A GREEN CLEANING PROGRAM

It will help reduce the risk of exposure to PCBs, and also reduce the risk of exposure to allergens and non-chemical irritants found in dust.

Choosing cleaning products certified by an independent third party agency to safer and reduce exposure to toxic chemicals often found in cleaning products.



- Clean the floor, walls, and window sills regularly with wet mopping and dusting.
- Removing PCB particles from surfaces reduces exposure through skin contact.
- Do not use dry brushes or dry cloths for dusting—they put air particles into the dust.



- Wash hands with soap and water often, particularly before eating and drinking to prevent ingestion of dust on hands.



- Wash face frequently with soap and water.
- Use a vacuum with a HEPA filter to reduce dust containing PCBs, allergens and other toxic chemicals found in dust.



- Increase ventilation to reduce PCBs by getting air and bring outside air into the building. This reduces the PCBs in the air. Study Tools for Schools under air is a great place to start.

- Green certification programs are available to help you reduce allergens, dust or lead.

Green Schools are manufacturer responsible for some schools covering PCBs with an air through ventilation may be less costly. Replacing windows is a more costly but provides energy savings and air quality.



Resources:
• EPA
• EPA's Lead Renovation, Repair and Painting (RRP) Rule
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