Protect Your **Family** From Lead in Your Home

United States

United States



Check Your Family for Lead

Get your children and home tested if you think your home has

Children's blood lead levels tend to increase rapidly from 6 to 12 months of age, and tend to peak at 18 to 24 months of age.

Consult your doctor for advice on testing your children. A simple blood test can detect lead. Blood lead tests are usually recommended for:

- · Children at ages 1 and 2
- Children or other family members who have been exposed to high
- · Children who should be tested under your state or local health

Your doctor can explain what the test results mean and if more testing will be needed.

Where Lead-Based Paint Is Found

In general, the older your home or childcare facility, the more likely it has lead-based paint.

Many homes, including private, federally-assisted, federallyowned housing, and childcare facilities built before 1978 have lead-based paint. In 1978, the federal government banned consume uses of lead-containing paint.2

Learn how to determine if paint is lead-based paint on page 7.

Lead can be found:

- · In homes and childcare facilities in the city, country, or suburbs,
- · In private and public single-family homes and apartments,
- · On surfaces inside and outside of the house, and
- In soil around a home. (Soil can pick up lead from exterior paint or other sources, such as past use of leaded gas in cars.)

Learn more about where lead is found at epa.gov/lead.

- ¹ "Lead-based paint" is currently defined by the federal government as paint with lead levels greater than or equal to 1.0 milligram per square centimeter (mg/cm), or more than 0.5% by weight.
- ² 'Lead-containing paint' is currently defined by the federal government as lead in new dried paint in excess of 90 parts per million (ppm) by weight

Are You Planning to Buy or Rent a Home Built Before 1978?

Did you know that many homes built before 1978 have lead-based paint? Lead from paint, chips, and dust can pose serious health

Read this entire brochure to learn:

- · How lead gets into the body
- How lead affects health
- What you can do to protect your family
- Where to go for more information

Before renting or buying a pre-1978 home or apartment, federal law requires:

- Sellers must disclose known information on lead-based paint or lead- . Take precautions to avoid exposure to lead dust when based paint hazards before selling a house.
- Real estate sales contracts must include a specific warning statement about lead-based paint. Buyers have up to 10 days to check for lead. • When renovating, repairing, or painting, hire only EPA- or state-
- Landlords must disclose known information on lead-based paint and lead-based paint hazards before leases take effect. Leases must include a specific warning statement about lead-based paint.

f undertaking renovations, repairs, or painting (RRP) projects in your pre-1978 home or apartment:

Read EPA's pamphlet, The Lead-Safe Certified Guide to Renovate Right, to learn about the lead-safe work practices that contractors are required to follow when working in your home (see page 12).

Identifying Lead-Based Paint

On windows and window sills

· Stairs, railings, banisters, and porches

Doors and door frames

including carpeted floors

hazardous:

vard

and Lead-Based Paint Hazards

Deteriorating lead-based paint (peeling, chipping, chalking,

cracking, or damaged paint) is a hazard and needs immediate

attention. Lead-based paint may also be a hazard when found on

surfaces that children can chew or that get a lot of wear and tear, such

Lead-based paint is usually not a hazard if it is in good condition

surfaces and objects that people touch. Settled lead dust can reenter the air when the home is vacuumed or swept, or when people walk

through it. EPA currently defines the following levels of lead in dust as

Lead in soil can be a hazard when children play in bare soil or when

people bring soil into the house on their shoes. EPA currently defines

1,200 ppm (average) and higher in bare soil in the remainder of the

Remember, lead from paint chips—which you can see—and lead

dust-which you may not be able to see-both can be hazards.

The only way to find out if paint, dust, or soil lead hazards exist is to

test for them. The next page describes how to do this.

· 400 parts per million (ppm) and higher in play areas of bare soil

Lead dust can form when lead-based paint is scraped, sanded, or

heated. Lead dust also forms when painted surfaces containing lead bump or rub together. Lead paint chips and dust can get on

40 micrograms per square foot (µg/ft²) and higher for floors,

250 µg/ft² and higher for interior window sills

the following levels of lead in soil as hazardous:

and if it is not on an impact or friction surface like a window.

Simple Steps to Protect Your Family from Lead Hazards

If you think your home has lead-based paint:

- Don't try to remove lead-based paint yourself.
- · Always keep painted surfaces in good condition to minimize
- · Get your home checked for lead hazards. Find a certified inspector or risk assessor at epa.gov/lead.
- · Talk to your landlord about fixing surfaces with peeling or chipping paint.
- Regularly clean floors, window sills, and other surfaces.
- approved Lead-Safe certified renovation firms.
- · Before buying, renting, or renovating your home, have it checked for lead-based paint.
- · Consult your health care provider about testing your children for lead. Your pediatrician can check for lead with a simple blood test.
- · Wash children's hands, bottles, pacifiers, and toys often.
- · Make sure children eat healthy, low-fat foods high in iron, calcium, and vitamin C.
- · Remove shoes or wipe soil off shoes before entering your

Checking Your Home for Lead

You can get your home tested for lead in several different ways:

- · A lead-based paint inspection tells you if your home has leadbased paint and where it is located. It won't tell you whether your home currently has lead hazards. A trained and certified testing professional, called a lead-based paint inspector, will conduct a paint inspection using methods, such as:
- · Portable x-ray fluorescence (XRF) machine
- · Lab tests of paint samples
- · A risk assessment tells you if your home currently has any lead hazards from lead in paint, dust, or soil. It also tells you what actions to take to address any hazards. A trained and certified testing professional, called a risk assessor, will-
- Sample paint that is deteriorated on doors, windows, floors, stairs,
- · Sample dust near painted surfaces and sample bare soil in the
- · Get lab tests of paint, dust, and soil samples
- · A combination inspection and risk assessment tells you if your home has any lead-based paint and if your home has any lead hazards, and where both are located.

Be sure to read the report provided to you after your inspection or risk assessment is completed, and ask questions about anything you do not

In preparing for renovation, repair, or painting work in a pre-1978 home, Lead-Safe Certified renovators (see page 12) may:

- · Take paint chip samples to determine if lead-based paint is present in the area planned for renovation and send them to an EPA-recognized lead lab for analysis. In housing receiving federal assistance, the person collecting these samples must be a certified lead-based paint inspector or risk assessor
- · Use EPA-recognized tests kits to determine if lead-based paint is absent (but not in housing receiving federal assistance)
- · Presume that lead-based paint is present and use lead-safe work

There are state and federal programs in place to ensure that testing is done safely, reliably, and effectively. Contact your state or local agency for more information, visit epa.gov/lead, or call 1-800-424-LEAD (5323) for a list of contacts in your area.3

Lead Gets into the Body in Many Ways

 Breathe in lead dust (especially during activities such as renovations) repairs, or painting that disturb painted surfaces).

Adults and children can get lead into their bodies if they:

- · Swallow lead dust that has settled on food, food preparation surfaces and other places.
- · Eat paint chips or soil that contains lead.

Lead is especially dangerous to children under the age of 6.

- · At this age, children's brains and nervous systems are more sensitive to the damaging effects of lead.
- Children's growing bodies absorb more lead.
- Babies and young children often put their hands and other objects in their mouths. These objects can have lead dust on them.



Women of childbearing age should know that lead is dangerous to a developing fetus.

· Women with a high lead level in their system before or during pregnancy risk exposing the fetus to lead through the placenta during fetal development.

Health Effects of Lead

Lead affects the body in many ways. It is important to know that even exposure to low levels of lead can severely harm children.

In children, exposure to lead can cause:

- · Nervous system and kidney damage
- Learning disabilities, attention-deficit disorder, and decreased intelligence
- · Speech, language, and behavior
- · Poor muscle coordination
- Decreased muscle and bone growth
- Hearing damage

While low-lead exposure is most common. exposure to high amounts of lead can have devastating effects on children, including seizures, unconsciousness, and in some cases, death.

Although children are especially susceptible to lead exposure, lead can be dangerous for adults, too.

In adults, exposure to lead can cause:

- Harm to a developing fetus
- · Increased chance of high blood pressure during pregnancy
- · Fertility problems (in men and women)
- High blood pressure
- Digestive problems
- Nerve disorders
- · Memory and concentration problems

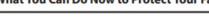
What You Can Do Now to Protect Your Family

If you suspect that your house has lead-based paint hazards, you can take some immediate steps to reduce your family's risk:

- · If you rent, notify your landlord of peeling or chipping paint.
- · Keep painted surfaces clean and free of dust. Clean floors, window frames, window sills, and other surfaces weekly. Use a mop or sponge with warm water and a general all-purpose cleaner. (Remember: never mix ammonia and bleach products together because they can form a dangerous gas.)
- Carefully clean up paint chips immediately without creating dust.
- Thoroughly rinse sponges and mop heads often during cleaning of dirty or dusty areas, and again afterward.
- Wash your hands and your children's hands often, especially before they eat and before nap time and bed time.
- Keep play areas clean. Wash bottles, pacifiers, toys, and stuffed animals regularly.
- Keep children from chewing window sills or other painted surfaces, or
- When renovating, repairing, or painting, hire only EPA- or stateapproved Lead-Safe Certified renovation firms (see page 12).
- Clean or remove shoes before entering your home to avoid tracking in lead from soil.
- · Make sure children eat nutritious, low-fat meals high in iron, and calcium, such as spinach and dairy products. Children with good diets



Muscle and joint pain



Reducing Lead Hazards

Disturbing lead-based paint or removing lead improperly can increase the hazard to your family by spreading even more lead dust around the house.

· In addition to day-to-day cleaning and good nutrition, you can temporarily reduce lead-based paint hazards by taking actions, such as repairing damaged painted surfaces and planting grass to cover leadcontaminated soil. These actions are not permanent solutions and will need ongoing attention.



- You can minimize exposure to lead when renovating, repairing, or painting by hiring an EPA- or statecertified renovator who is trained in the use of lead-safe work practices. If you are a do-it-yourselfer, learn how to use lead-safe work practices in your home.
- To remove lead hazards permanently, you should hire a certified lead abatement contractor, Abatement (or permanent hazard elimination) methods include removing, sealing, or enclosing lead-based paint with special materials. Just painting over the hazard with regular paint is not permanent control.

Always use a certified contractor who is trained to address lead hazards safely.

- · Hire a Lead-Safe Certified firm (see page 12) to perform renovation, repair, or painting (RRP) projects that disturb painted surfaces.
- · To correct lead hazards permanently, hire a certified lead abatement professional. This will ensure your contractor knows how to work safely and has the proper equipment to clean up thoroughly.

Certified contractors will employ qualified workers and follow strict safety rules as set by their state or by the federal government.

If your home has had lead abatement work done or if the housing is receiving federal assistance, once the work is completed, dust cleanup dust levels are below the following levels:

- · 40 micrograms per square foot (µg/ft2) for floors, including carpeted
- 250 µg/ft² for interior windows sills
- 400 µg/ft² for window troughs

call your state or local agency (see pages 14 and 15), or visit epa.gov/lead, or call 1-800-424-LEAD.

Consumer Product Safety Commission (CPSC)

The CPSC protects the public against unreasonable risk of injury from consumer products through education, safety standards activities, and enforcement. Contact CPSC for further information regarding consumer product safety and regulations.

CPSC

4330 East West Highway Bethesda, MD 20814-4421 1-800-638-2772 cpsc.gov or saferproducts.gov

U. S. Department of Housing and Urban Development (HUD)

HUD's mission is to create strong, sustainable, inclusive communities and quality affordable homes for all. Contact HUD's Office of Healthy Homes and Lead Hazard Control for further information regarding the Lead Safe Housing Rule, which protects families in pre-1978 assisted housing, and for the lead hazard control and research grant programs.

451 Seventh Street, SW, Room 8236 Washington, DC 20410-3000 (202) 402-7698 hud.gov/offices/lead/

Renovating, Repairing or Painting a Home with Lead-Based Paint

If you hire a contractor to conduct renovation, repair, or painting (RRP) projects in your pre-1978 home or childcare facility (such as pre-school and kindergarten), your contractor must:

- Be a Lead-Safe Certified firm approved by EPA or an EPA-authorized state program
- Use qualified trained individuals (Lead-Safe) Certified renovators) who follow specific lead-safe work practices to prevent lead contamination
- · Provide a copy of EPA's lead hazard information document, The Lead-Safe Certified Guide to Renovate Right



RRP contractors working in pre-1978 homes and childcare facilities must follow lead-safe work practices that:

- · Contain the work area. The area must be contained so that dust and · If you use a filter certified to remove lead, don't forget to read the debris do not escape from the work area. Warning signs must be put up, and plastic or other impermeable material and tape must be used.
- Avoid renovation methods that generate large amounts of lead-contaminated dust. Some methods generate so much leadcontaminated dust that their use is prohibited. They are:
- · Open-flame burning or torching
- Sanding, grinding, planing, needle gunning, or blasting with power tools and equipment not equipped with a shroud and HEPA vacuum attachment
- Using a heat gun at temperatures greater than 1100°F
- activities must be conducted until clearance testing indicates that lead* Clean up thoroughly. The work area should be cleaned up daily. When all the work is done, the area must be cleaned up using special cleaning methods.
 - · Dispose of waste properly. Collect and seal waste in a heavy duty bag or sheeting. When transported, ensure that waste is contained to prevent release of dust and debris.

For help in locating certified lead abatement professionals in your area To learn more about EPA's requirements for RRP projects, visit epa.gov/getleadsafe, or read The Lead-Safe Certified Guide to Renovate Right.

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U. S. EPA Washington DC 20460 U. S. CPSC Bethesda MD 20814 U.S. HUD Washington DC 20410 EPA-747-K-12-001

Other Sources of Lead

Lead in Drinking Water

The most common sources of lead in drinking water are lead pipes, faucets, and fixtures.

Lead pipes are more likely to be found in older cities and homes built

You can't smell or taste lead in drinking water.

To find out for certain if you have lead in drinking water, have your water tested

Remember older homes with a private well can also have plumbing materials that contain lead.

mportant Steps You Can Take to Reduce Lead in Drinking Water

- Use only cold water for drinking, cooking and making baby formula. Remember, boiling water does not remove lead from water
- Before drinking, flush your home's pipes by running the tap, taking a shower, doing laundry, or doing a load of dishes.
- Regularly clean your faucet's screen (also known as an aerator).
- directions to learn when to change the cartridge. Using a filter after it Virginia, DC, West Virginia) has expired can make it less effective at removing lead.

Contact your water company to determine if the pipe that connects your home to the water main (called a service line) is made from lead. Your area's water company can also provide information about the lead (215) 814-2088 levels in your system's drinking water.

For more information about lead in drinking water, please contact EPA's Safe Drinking Water Hotline at 1-800-426-4791. If you have other questions about lead poisoning prevention, call 1-800 424-LEAD.*

Call your local health department or water company to find out about testing your water, or visit epa.gov/safewater for EPA's lead in drinking water information. Some states or utilities offer programs to pay for water testing for residents. Contact your state or local water company to learn more.

Hearing- or speech-challenged individuals may access this number through TTY by calling the Federal Relay Service at 1-800-877-8339.

IMPORTANT!

Lead From Paint, Dust, and Soil in and **Around Your Home Can Be Dangerous if Not Managed Properly**

- · Children under 6 years old are most at risk for lead poisoning in your home.
- Lead exposure can harm young children and babies even before they are born.
- · Homes, schools, and child care facilities built before 1978 are likely to contain lead-based paint.
- · Even children who seem healthy may have dangerous levels of lead in their bodies.
- Disturbing surfaces with lead-based paint or removing lead-based paint improperly can increase the danger to your family.
- · People can get lead into their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.
- People have many options for reducing lead hazards. Generally, lead-based paint that is in good condition is not a hazard (see page 10).

U. S. Environmental Protection Agency (EPA) **Regional Offices**

The mission of EPA is to protect human health and the environment. Your Regional EPA Office can provide further information regarding regulations and lead protection programs.

Region 1 (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)

Regional Lead Contact U.S. EPA Region 1 5 Post Office Square, Suite 100, OES 05-4 Boston, MA 02109-3912 (888) 372-7341

Region 2 (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Lead Contact U.S. EPA Region 2 2890 Woodbridge Avenue Building 205, Mail Stop 225 Edison, NJ 08837-3679 (732) 321-6671

Region 3 (Delaware, Maryland, Pennsylvania

Regional Lead Contact U.S. EPA Region 3 1650 Arch Street Philadelphia, PA 19103

Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee) Regional Lead Contact

U.S. EPA Region 4 AFC Tower, 12th Floor, Air, Pesticides & Toxics 61 Forsyth Street, SW Atlanta GA 30303 (404) 562-8998

Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin

Regional Lead Contact U.S. EPA Region 5 (DT-8J) 77 West Jackson Boulevard Chicago, IL 60604-3666 (312) 886-7836

Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, Texas, and 66 Tribes)

Regional Lead Contact U.S. EPA Region 6 1445 Ross Avenue, 12th Floor Dallas, TX 75202-2733 (214) 665-2704

Region 7 (Iowa, Kansas, Missouri, Nebraska)

Regional Lead Contact U.S. EPA Region 7 11201 Renner Blvd WWPD/TOPE Lenexa, KS 66219 (800) 223-0425

Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)

Regional Lead Contact U.S. EPA Region 8 1595 Wynkoop St. Denver, CO 80202 (303) 312-6966

Region 9 (Arizona, California, Hawaii

Regional Lead Contact U.S. EPA Region 9 (CMD-4-2) 75 Hawthorne Street San Francisco, CA 94105 (415) 947-4280

Region 10 (Alaska, Idaho, Oregon, Washington)

Regional Lead Contact U.S. EPA Region 10 Solid Waste & Toxics Unit (WCM-128) 1200 Sixth Avenue, Suite 900 Seattle, WA 98101 (206) 553-1200

For More Information

The National Lead Information Center

Learn how to protect children from lead poisoning and get other information about lead hazards on the Web at epa.gov/safewater and hud.gov/lead, or call 1-800-424-LEAD (5323).

EPA's Safe Drinking Water Hotline

For information about lead in drinking water, call 1-800-426-4791, or visit epa.gov/lead for information about lead in drinking water.

Consumer Product Safety Commission (CPSC) Hotline

For information on lead in toys and other consumer products, or to report an unsafe consumer product or a product-related injury, call 1-800-638-2772, or visit CPSC's website at cpsc.gov or saferproducts.gov.

State and Local Health and Environmental Agencies

Some states, tribes, and cities have their own rules related to leadbased paint. Check with your local agency to see which laws apply to you. Most agencies can also provide information on finding a lead abatement firm in your area, and on possible sources of financial aid for reducing lead hazards. Receive up-to-date address and phone information for your state or local contacts on the Web at epa.gov/safewater, or contact the National Lead Information Center at 1-800-424-LEAD.

Hearing- or speech-challenged individuals may access any of the phone numbers in this brochure through TTY by calling the tollfree Federal Relay Service at 1-800-877-8339.