

# Mold in My Home: What Do I Do?

*This fact sheet provides information to people who have experienced water damage to their home. It presents the health concerns related to mold exposure. It also provides general guidelines on mold detection, cleanup and removal of mold contaminated materials.*

## ABOUT MOLD

### What is it?

Molds are simple, microscopic organisms found virtually everywhere, indoors and outdoors. Molds are an important part of the life cycle because they act to decompose organic matter. Molds can be found on plants, foods, dry leaves and other organic material. Because mold spores are very tiny and lightweight, they can travel through the air. Mold growths often can be seen in the form of discoloration ranging from white to orange and from green to brown or black.

### Should I be concerned about mold in my home?

Yes, if the contamination is extensive. When airborne mold particles, such as mold spores, are present in large numbers, they can cause allergic reactions, asthma episodes, infections and other respiratory problems for people. Mold also can cause structural damage to your home.

### Why does mold grow?

Mold grows when environmental conditions are favorable. Those conditions include a food source, the right temperature and the presence of moisture. Because molds will decompose a wide variety of materials and many molds thrive at room temperature, moisture control becomes the key factor to preventing indoor mold growth.

### Can mold become a problem in my home?

Yes, if there is moisture available to allow mold to thrive and multiply. Common moisture sources include:

- Flooding
- Backed-up sewers
- Leaky roofs
- Humidifiers
- Damp basements or crawl spaces

- Constant plumbing leaks
- Shower/bath steam and leaks
- Clothes dryers and combustion appliances (stove, furnace, water heater, etc.) not exhausted to the outdoors

## HEALTH EFFECTS

### How am I exposed to indoor molds?

It is common to find mold spores in the air of homes and growing on damp surfaces. Much of the mold found indoors originates from an outdoor source; therefore, everyone is exposed to some mold on a daily basis. Because people spend a great deal of time indoors and buildings tend to have limited outdoor air ventilation, an indoor source of mold can create higher indoor concentrations of airborne mold spores.

### How much mold can make me sick?

It depends. Molds spores primarily cause health problems when they become airborne and are inhaled in large numbers. For some people, a relatively small number of mold spores can cause health problems. For others it may take much more. There are no health-based standards or exposure limits for mold. The basic rule is, if you can see or smell mold, take steps to eliminate the excess moisture and to clean up and remove the mold.

### Who is at greater risk when exposed to mold?

Exposure to elevated concentrations of mold is not healthy for anyone. The following individuals appear to be at higher risk for adverse health effects of molds:

- Infants and children
- Elderly
- Immune-compromised patients (people with HIV infection, cancer chemotherapy, liver disease, etc.)
- Pregnant women
- Individuals with existing respiratory

conditions such as asthma, allergies and multiple chemical sensitivity

### What symptoms are common?

Typical symptoms (alone or in combination) include:

- Respiratory problems, such as wheezing and difficulty breathing
- Nasal and sinus congestion
- Eye problems, such as burning, watering, reddening, blurred vision and light sensitivity
- Dry, hacking cough
- Sore throat
- Nose and throat irritation
- Shortness of breath
- Skin irritation
- Aches and pains
- Fever

*The symptoms above can be contributed to many causes. People who are experiencing one or more of these symptoms should seek assistance from a physician.*

### Are some molds more hazardous than others?

Yes. All molds can cause health problems; however, some species of mold are more capable of causing infections than others. In addition, some molds produce mycotoxins. Although the health effects from exposure to mycotoxins are unclear at this point, people should exercise added caution when dealing with a mold species known to produce a mycotoxin.

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## DETECTION OF MOLD

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### How can I tell if I have mold in my house?

The easiest way to know is if you see mold growth. If there is a musty or earthy odor, or if the house exhibits chronic moisture control problems, you can assume you have a mold problem. Also, allergic individuals may experience the symptoms listed on the front of this sheet. Mold growth may be found behind walls or underneath materials where water has damaged the surface. Look for discoloration of drywall or plaster.

### Should I test my home for mold?

Testing is not recommended as the first step to determine if you have a mold problem. Reliable sampling for mold can be expensive and requires equipment not usually available to the general public.

Few standards are available for judging what is an acceptable quantity of mold. All locations contain some level of mold. The simplest approach is: If you can see or smell mold, you have a problem. Unless the source of moisture is found and removed and the contaminated area cleaned and disinfected, mold growth is likely to recur. Once you know the problem exists, follow the clean-up steps below.

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## GENERAL CLEAN-UP

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1. Identify and fix the moisture source.
2. Remove the mold.
3. Clean, disinfect and dry the area.

### It is most critical to remove the source of the moisture in order to ensure that the mold growth will not return.

Removing the source of moisture is especially important before replacing any discarded items with new materials in order to prevent the new materials from becoming moldy.

### What can I save? What should I discard?

Porous materials such as paper, wallboard, carpet, sheetrock, and insulation that exhibit mold growth should be discarded. Because of the porous nature of these items, mold growth is typically throughout the material, making them very difficult to clean thoroughly. Harder surfaced materials such as glass, plastic or metal can be kept after they are cleaned and disinfected. Foundation materials that are impractical to remove should be

assessed on a case-by-case basis and may need to be inspected by a building inspector for structural damage.

The important thing to remember when considering what to keep and what to discard is that the mold needs to be removed. Simply killing the mold may be inadequate because it does not remove the mold allergens from the environment.

### Can mold cleanup be a health hazard?

Yes. Exposure to mold can occur during the mold removal and cleaning stage. Whether you or a professional contractor is doing the cleanup, steps should be taken to protect the health of the workers and other occupants.

- Have sensitive people leave the area while the work is being done.
- Wear protective clothing (that can be cleaned thoroughly or discarded), gloves, goggles and breathing protection.
- Seal off the area as much as possible. This would include covering any air vents near the work area.
- Remove any furnishings from the area for later cleaning.
- Use negative pressure in the work area if possible, or at least provide ventilation (open window, etc.).
- Use a HEPA air filter in the work area if one is available.

### Mold Removal

Remove all porous materials such as ceiling tile, sheetrock, carpet and insulation that exhibit mold growth. Bag and seal all moldy material before removal from the work area. A vacuum can be used to help cleanup, but only a vacuum with a high efficiency particulate air (HEPA) filter.

### Cleanup

Before disinfecting contaminated areas, clean the areas to remove as much mold (and material it is growing on) as possible. Clean with a non-ammonia detergent in hot water:

- Scrub the entire area affected by the moisture.
- Use a stiff brush or cleaning pad on block walls or uneven surfaces.
- Rinse the area with clean water.
- Thoroughly dry the area as quickly as possible.
- Repeat the cleaning as necessary to remove the mold.

## Disinfect Surfaces

After removing as much of the mold as possible, a disinfectant can be used to kill mold that might remain. The Most common disinfectant used by homeowners is bleach. There are other products on the market for disinfecting the area being cleaned. For correct mixing ratio of water to disinfectant follow manufactures instructions.

- Apply a thin coat of bleach solution to the entire area, ensuring that the entire area is cleaned, not just where the moisture problem occurred and the mold growth was removed.
- Use a sprayer or a sponge to apply the solution liberally, but avoid excessive amounts of runoff or standing pools.
- Allow the area to dry naturally. Drying time is important for the disinfectant to be effective at killing mold and bacteria.

***WARNING! Never mix bleach & ammonia. The fumes are toxic!***

### After cleaning everything thoroughly, can I still have mold odors?

Yes. It is possible that odors may persist. Continue to dry out the area and search for any hidden areas of mold growth. If the area continues to smell musty, you may have to clean the area again. Follow the cleaning steps on this fact sheet. Continue to dry and ventilate the area. Do not replace flooring or begin to rebuild with finish materials until the area has dried completely.

## FOR ASSISTANCE CONTACT:

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