

# Flood hazards – protecting your health and safety

## Community fact sheet

When returning to your home after a flood, take precautions to reduce the possibility of illness, disease or injury.

Before going onto your property consider:

- Damaged gas or electricity supplies – these hazards need to be declared safe by a qualified electrician or plumber.
- The structural integrity of your home and structures may be affected – this needs to be declared safe by a qualified building surveyor.
- Wild animals including rodents, snakes or spiders may be trapped in and around your home. Cuts from broken glass and debris are also a problem - wear sturdy waterproof boots and rubber or leather gloves.
- Food may be contaminated by the floodwater, or spoiled due to power failure.
- Drinking water may be contaminated – do not drink any water unless you know it is safe (bottled, boiled or disinfected).
- Wading or playing in floodwater is hazardous due to the risk of drowning and potential skin infection through open wounds coming into contact with the floodwater.
- Mosquitoes can breed rapidly and become a nuisance – cover skin with long sleeves and pants, and use an insect repellent.
- If possible, use flashlights or other battery operated lights instead of candles. Do not smoke or use matches, lighters or other open flames in case gas has collected inside.
- Pets and other animals may have died and need to be removed. For advice on safe disposal speak to your local council or veterinarian.
- Flooding can cause excessive mould growth, which must be cleaned up before moving back to your home.
- Flooding may cause sewage to overflow inside your home. Contaminated areas must be cleaned and

disinfected. Keep children and pets away until clean-up is completed.

- Buildings may contain asbestos-containing material. Take all necessary precautions when handling asbestos containing debris.

## Personal hygiene is essential

A number of infectious diseases, including gastrointestinal infections and hepatitis A, can spread through contact with contaminated surfaces. The likelihood of illness increases when floodwater contains faecal material (poo) from overflowing sewage systems, agricultural or industrial wastes.

Never use contaminated water to wash dishes, brush your teeth, wash your hands, wash and prepare food, make ice or make baby formula.

**Always wash your hands with soap and safe water** (that has been boiled or disinfected):

- before preparing or eating food
- after going to the toilet
- after clean-up activities
- after handling articles contaminated with floodwater or sewage.

If boiled or disinfected water is not available, you can use alcohol-based products to disinfect your hands.

**If you have any open cut or sore** that has been exposed to floodwater:

- Keep it as clean as possible by washing with soap and covering with a plaster.
- Contact a doctor for further treatment advice (such as a tetanus shot).
- If redness, swelling or discharge occurs seek immediate medical attention.

Parents need to help their children avoid waterborne illness:

- Do not allow children to play in floodwater areas.
- Wash children's hands frequently (always before meals).
- Do not allow children to play with flood damaged toys contaminated with floodwater until they have been disinfected.

## Preventing illness from water

Local water authorities will tell you if tap water is safe or unsafe to drink, use for cooking, cleaning or bathing. If the water is not safe, use bottled, boiled or disinfected water.

An above ground rainwater tank that has not been inundated with floodwaters or damaged should be safe for continued use.

Correctly boil water by:

- Keeping it at a rolling boil for 1 minute to make sure bacteria are killed.
- If you suspect the water is contaminated with chemicals boiling will not make it safe to drink – **only use bottled water.**

Correctly disinfect water for drinking by:

- Adding  $\frac{3}{4}$  of a teaspoon (4 mL) of non-scented chlorine bleach into a clean household bucket of water (i.e. 10 Litres).
- Stirring the water well, and letting it stand for 30 minutes before using it.

For infants:

- Use only pre-prepared canned baby food.
- Make up powdered formulas with bottled water.

Clean children's toys that have come into contact with floodwater:

- In a solution of 1.5 cups of household bleach in 10 Litres of cold water (a household bucket) for 2 minutes. Rinse in clean water.
- Let toys air dry after cleaning.

Children and elderly people are particularly at risk from dehydration. Ensure they drink plenty of safe (i.e. bottled) water until the drinking water supply is declared safe.

## Managing sewage overflow inside your home

Sewage contains harmful bacteria and viruses. Keep children and pets away from sewage affected areas until it has been cleaned up.

Appropriate clean up procedures include:

- Use rubber gloves and boots, and eye protection.
- Remove and discard contaminated household materials that cannot be cleaned or disinfected, such as carpet and children's soft toys.
- Clean and disinfect all contaminated areas with hot water and detergent, then disinfect.
- Do not use high-pressure water jets on asbestos-containing materials.
- Pay special attention to cooking utensils, work surfaces and other surfaces such as floors and walls.
- For utensils, dip them in a solution of 1.5 cups of household chlorine bleach in 10 Litres of cold water (a household bucket) for 2 minutes. Rinse in clean water.
- To disinfect hard surfaces, use the same solution and leave wet for 10 minutes. Rinse off with clean water.
- Disinfect cleaning mops, brooms and brushes with bleach solution.
- Clean and dry dirty footwear and wash your clothes separately after clean up.
- Wash your hands and any affected parts of your body with soap and water.
- For further advice, contact your local water authority or Environmental Health section of your local council.

## Preventing illness from food

Floodwaters can damage food via direct contact or, indirectly during interrupted power supply.

Throw away:

- Food that has come into direct contact with floodwater.
- Any food that has an unusual odour, colour or texture.
- Perishable foods (including meat, poultry, fish, eggs or leftovers) that have been left above 5 °C for more than 4 hours.
- Canned food if the can is open, bulging or damaged.
- Food containers with screw-caps, snap-lids, crimped caps (soft drink bottles), twist caps, flip top lids and home canned foods.

For cleaning cans that are sealed, not bulging and intact but have come into contact with floodwater:

- Remove the labels.
- Wash the cans.
- Dip them in a solution of 1.5 cups of household chlorine bleach in 10 Litres of cold water (a household bucket) for 2 minutes.
- Relabel the cans with a waterproof marker pen.

**If the power is on - refreeze or cook:**

- • Food that has thawed but contains ice crystals
- and is below 4 °C.

**If the power is off – store food safely by:**

- Keeping the refrigerator and freezer doors closed as much as possible.
- Adding block or dry ice to your refrigerator if the power is likely to be off longer than 4 hours. Wear gloves when handling ice.

## Be careful when cleaning up

When cleaning up, wear protective clothing, such as sturdy footwear, loose long-sleeved shirts and trousers and heavy duty work gloves.

There may be asbestos debris in your home. Where there is extensive demolition, repair and renovation work involving asbestos-containing material, licensed asbestos contractors should be employed to undertake the work.

## For further information

- If you or anyone in your family feels unwell, seek medical advice from your local doctor.
- For further advice contact the Environmental Health Unit at the Department of Health and Human Services on 1300 761 874.
- For advice, information and safety precautions relating to the handling of asbestos go to:  
[www.asbestos.vic.gov.au](http://www.asbestos.vic.gov.au)

Authorised and published by the Victorian Government, 1 Treasury Place, Melbourne.

© State of Victoria, Department of Health and Human Services, January, 2016.