

Where are chemicals in rural areas found?

CHEMICALS AROUND

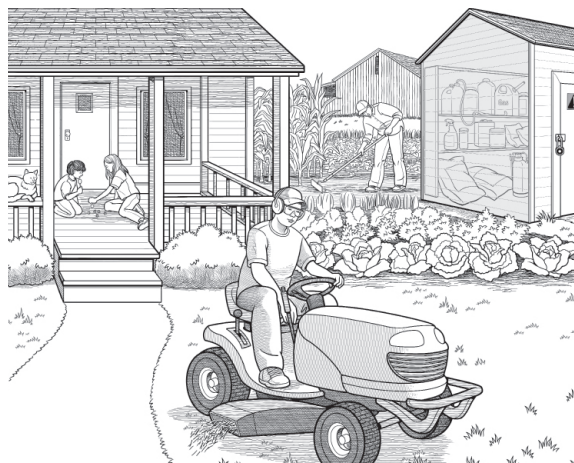
Objective: Identify locations where chemicals are found, used, and stored.

Concept: Chemicals can be transferred from one body part to another and other objects. Proper washing of hands is important after being exposed to chemicals. Chemicals are sometimes difficult to remove from the body. Even after washing the area or clothing, chemical residue can be present even if not visible by the naked eye.

Targeted Age: School Age and Adolescence

Materials:

- ▶ Glo-Germ lotion or oil (Call 1-888-912-7474)
- ▶ Gloves
- ▶ Ultraviolet light



Glo-Germ is a product used to demonstrate the importance of proper hand washing to prevent the spread of bacteria. It can also show how easy it is to transfer chemicals from one location to another.

Before the lesson sprinkle Glo-Germ powder in and onto the gloves, but not enough to see the powder. Ask a volunteer to wear the gloves while listening to a discussion about chemicals. When finished with the session have the volunteer come to the front of the room and turn out the lights. Run the ultraviolet light around the person and note all the places that the person touched during the session. Talk about the amount of transfer that takes place from one part of the body to another.

This is normal. It also means that parts of the body can be exposed that are not protected by PPE. Personal hygiene is important in reducing residue that may exist after exposure to any form of chemical. Even though you may think you have cleaned thoroughly there is probably invisible residue left. Further illustrate this principle by washing the volunteer's hands and show that residue is still present under the light. Explain how this can happen when washing clothing contaminated with chemicals.

Liquid Woolite is another product that is invisible in daylight, but appears under ultraviolet light. This is an alternative if you suspect that a student may be allergic to chemical substances such as Glo Germ. The Woolite will wash off well with water so the demonstration will not point out the importance of cleanliness, but can be used to show the transfer from one person to another person or object.

