



EXERCISE

EXERCISE 2:

Title: Reactive Chemicals | *Assessing and Controlling Hazards*

Target Audience: All employees who work with or around reactive chemicals

Exercise Objective: To review the processes of finding reactive chemical hazard information and responding to emergencies

Instructions: Have trainees complete the worksheet below. Then discuss the results as a group and answer any questions.

1. Locate the safety data sheet (SDS) station closest to your work area, and find the SDS for a reactive chemical. Write down the name of the chemical and its hazards.

2. Look for information about personal protective equipment (PPE) in the SDS. What do you need to wear to protect yourself from exposure to this chemical?

3. Look for information about first-aid measures in the SDS. What is the proper first-aid procedure for exposure to this chemical?

On skin: _____

In eyes: _____

Inhaled: _____

Swallowed: _____



EXERCISE

4. Do you know the location of the emergency equipment nearest to your workstation and how to use it correctly? (Select YES or NO.)

First-aid kits Yes No

Spill response supplies Yes No

Safety showers Yes No

Eyewash stations Yes No

Fire extinguishers Yes No

5. What procedures should you follow in the event of an emergency involving an uncontrolled chemical reaction?



GUIDANCE:

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1. Employees should be able to locate and readily access the SDSs for any chemicals in their work area. If any employees struggle to locate them, be sure to assist them and evaluate whether the SDSs are in the appropriate location.
2. Information about PPE will be found in Section 8 of the SDS—Exposure Controls/Personal Protection.
3. Information about first aid will be found in Section 4 of the SDS—First Aid Measures.
4. Employees should know how to quickly find emergency equipment, as well as how to use it effectively in an emergency. Trainees should have been able to select YES for each of the emergency items. Just to be sure that they know where to find emergency equipment, ask trainees to identify the locations of emergency equipment closest to their workstation. If appropriate, you can demonstrate proper use of a fire extinguisher and explain the types of extinguishers that should be used for different kinds of reactive chemicals used or stored in the work area.
5. Review your organization's emergency procedures. Generally speaking, employees should:
 - Leave the area if a hazardous condition exists. They should, for example, evacuate immediately if they are not trained to handle a problem or if the situation is clearly beyond their control.
 - Immediately notify others, including supervisors and the emergency response team.
 - Keep out of the area until told it is safe to return.
 - Clean up large spills only if trained, equipped, and authorized.