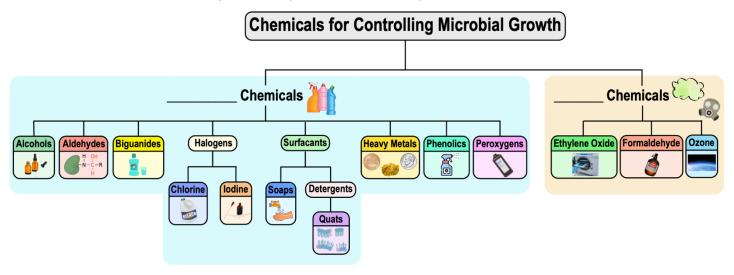
## **CONCEPT:** CHEMICALS USED TO CONTROL MICROBIAL GROWTH

- •There are many chemical agents that can be used for controlling microbial growth (liquid and gas chemicals).
  - □ *Most* chemicals *irreversibly* react with proteins, DNA, and/or plasma membranes to kill microbes.



PRACTICE: Which of the following chemical agents is a gas?

- a) Quats.
- b) Alcohols.
- c) Ozone.
- d) Chlorine.

## **Factors Affecting Chemical Agents**

• The effectiveness of chemical agents depends on multiple factors:

## Factors Affecting Chemical Agents 1 Concentration: Some are effective when diluted & can be toxic at high concentrations. 2 \_\_\_\_\_\_ Time: Some require long exposure times & are less (but still) effective at short times. 3 Temperature: Some chemicals have an \_\_\_\_\_\_ temperature. 4 Interfering \_\_\_\_\_\_: Some chemicals are not compatible & may inactivate one another.