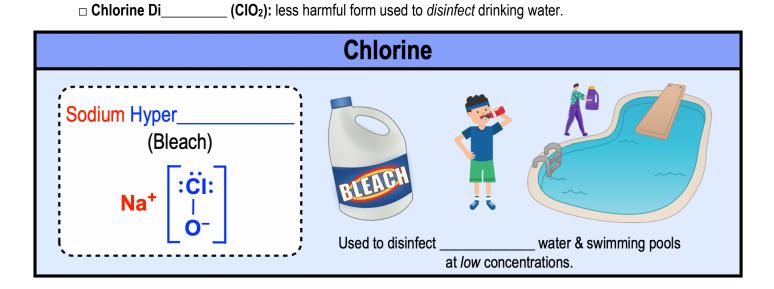
CONCEPT: LIQUID CHEMICALS: HALOGENS

• Halogens: highly reactive *oxidizing* agents that damage proteins & other cell components.

□ The halogens _____ & ____ are commonly used disinfectants.

Chlorine

Chlorine: a halogen chemical that	inanimate objects when used appropriately.
□ Generally used at concentrations b	ecause it is both toxic & corrosive at high concentrations
□ Can react with organic matter to form	products.
Chlorine is readily available in multiple forms including:	
□ Sodium Hypochlorite (liquid	_): inexpensive & readily available form of chlorine.



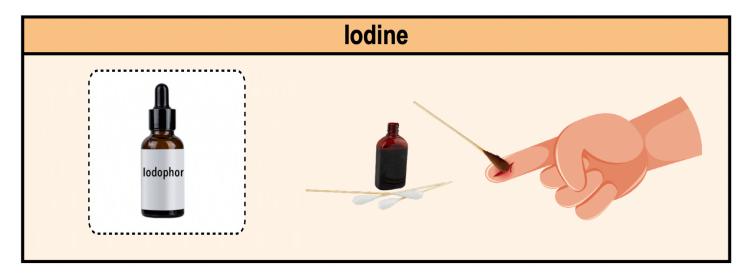
PRACTICE: Chlorine:

- a) Readily reacts with organics to produce potentially carcinogenic trihalomethanes.
- b) Is an effective, inexpensive, disinfectant able to destroy all types of microorganisms.
- c) Is unaffected by the presence of organic material.
- d) Is ineffective when diluted.
- e) A and B.
- f) C and D.

CONCEPT: LIQUID CHEMICALS: HALOGENS

<u>lodine</u>

lodine: halogen chemical that kills most microbes & is often in the form of a tincture or an
□ lodophor: a combination of iodine & an organic molecule, from which the iodine is released slowly.
□ Can act as a <i>disinfectant</i> or an <i>antiseptic</i> depending on the
□irritating at low concentrations when used as an antiseptic to treat wounds or burns on the skin.



PRACTICE: Which is true of iodine?

- a) It does not readily kill endospores.
- b) It may be used as an antiseptic or as a disinfectant.
- c) It is important to use it at the recommended dilution.
- d) It is usually found as tinctures or iodophors.
- e) All are true.

PRACTICE: An iodophor is:

- a) A highly concentrated form of iodine in a water-alcohol solution.
- b) A 2% diluted form of iodine in a water-alcohol solution.
- c) A undiluted form of iodine.
- d) A solid form of iodine.