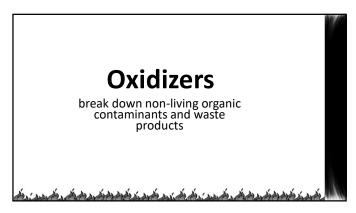


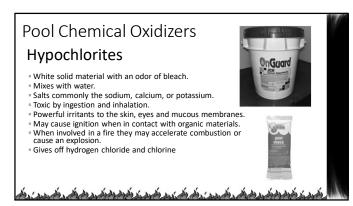
Types of Pool Chemicals

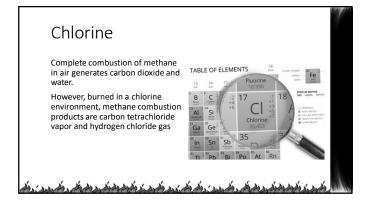
- Oxidizers
- Sanitizers
- Algaecides
- pH Balance
- Flocculants to
- Stain Control
- Filter Cleaners
- كالمراجع كالمعاطف والمراجي والمراجع والمراجع والمراجع والمعاطف والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج



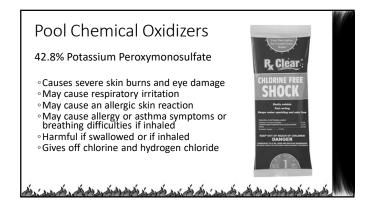


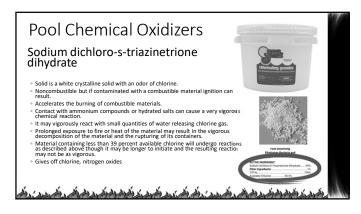












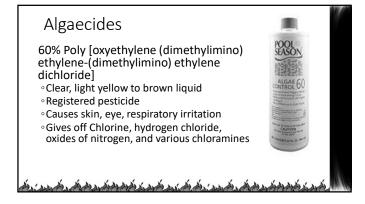


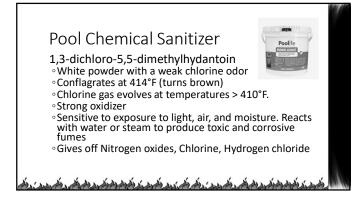


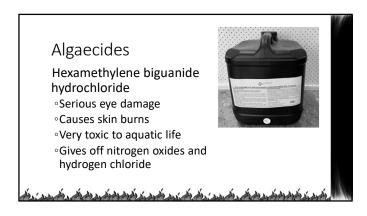


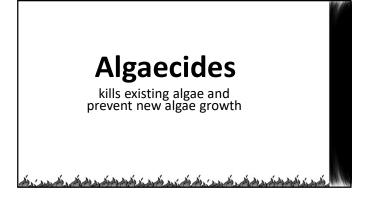


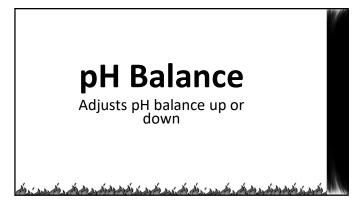


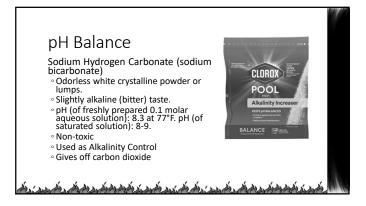


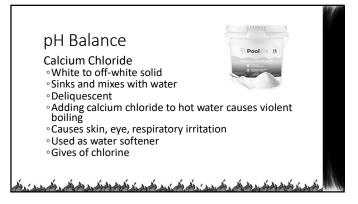


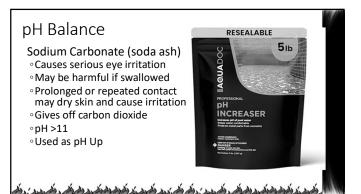


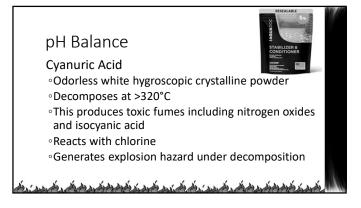


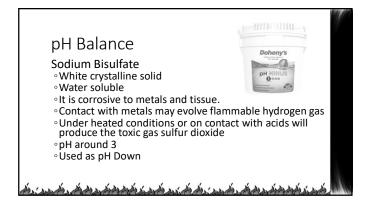


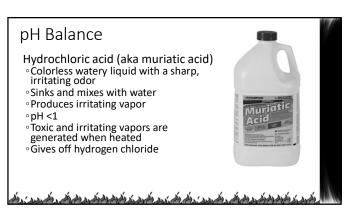


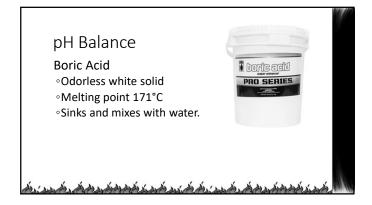




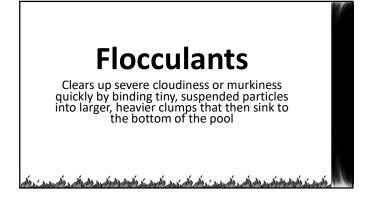


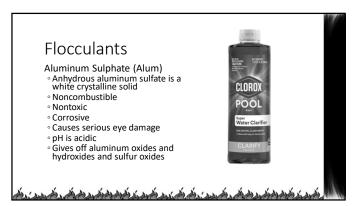














Stain Control and Filter Cleaners



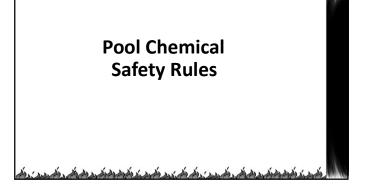
Handling and application

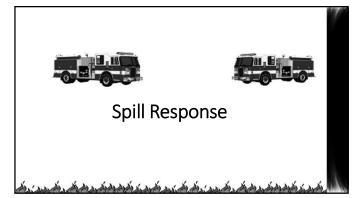
- Add powder to water, never the other way around: This prevents violent reactions and splashing.
- Always add chemicals with the pump and filter running: This ensures proper circulation and helps prevent dangerous reactions.
- Never mix chemicals: Mixing can create toxic gases or start fires.
- Wear protective equipment: Use gloves, eye protection, and a mask as indicated on the product label.
- Clean tools: Use separate, clean scoops for each chemical and wash tools after use.

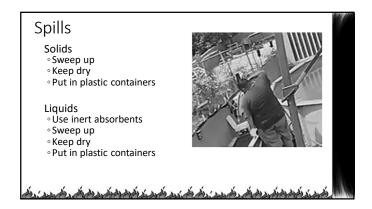


Storage

- Store in a cool, dry, well-ventilated area: This prevents gas buildup, especially from chemicals like muriatic acid.
- Keep chemicals in their original containers: Ensure lids are always tightly closed when not in use.
- Store chemicals separately: Do not store different types of chemicals next to each other; separate acids from disinfectants.





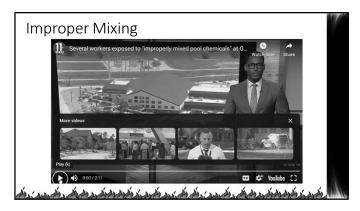






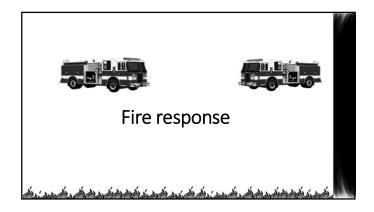






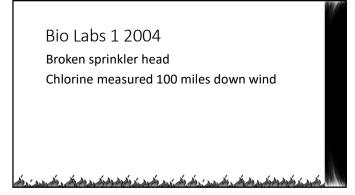






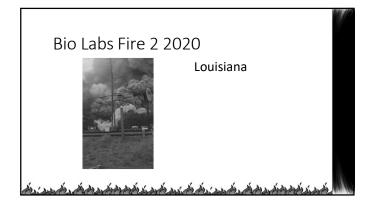


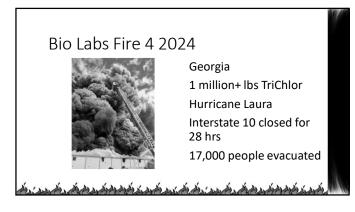


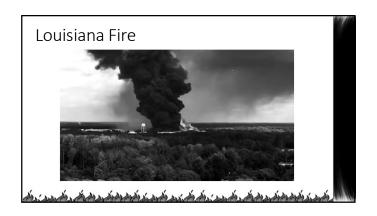


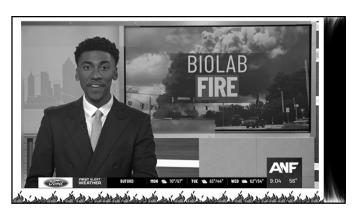


Bio Labs Fire 3 2020
Happened right after LA fire





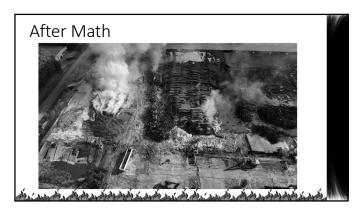




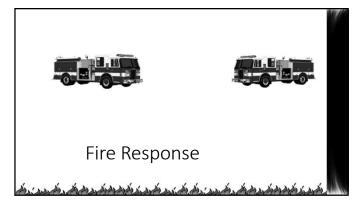












Pre Plan

Know the hazards

Store managers should maintain an accurate inventory and know the location of all stored chemicals

They must have up-to-date Safety Data Sheets (SDS) for all products

Strategy and Tactics

Small fire

Large fire

Has it exploded yet

Pre Plan

Visit and Inspect

- °Storage of incompatibles
- °Storage of flammables

Strategy and Tactics

Is water my friend



Structural Problems Fire in a building •Warehouse •Corner store •Structure of Bldg •Collapsed roof

Reactive Chemicals

Standard firefighting tactics can worsen the situation and create toxic gas clouds or explosions

Strategy and Tactics

Prioritize a defensive posture

An aggressive interior attack should be delayed or avoided entirely until the chemical hazard is assessed

Strategy and Tactics
Better get some HAZMAT people
Detection and Monitoring

Evacuation

Establish a large perimeter

Evacuate the area immediately downwind of the fire to protect against toxic fumes

Strategy and Tactics PPE?

Strategy and Tactics

Confirm chemical hazards

- Gather information
- What chemicals are involved
- Where are they stored
- Compatibility of chemicals

Strategy and Tactics
Attack from a distance
Master streams
Copious amounts of water

Strategy and Tactics

Don't use dry chemicals

- °Could contain ammonia salts
- Generates nitrogen chloride (BOOM)

Strategy and Tactics
Tear it apart and smother it

Strategy and Tactics

Control run off

∘Gets in water ways – everything dies

Control fumes

 $\circ \text{Try}$ to knock down fumes – prevent down wind impact



Strategy and Tactics

Tear it apart

Put it out in small drenching quantities of water