

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The main title is centered in the upper half of the slide.

# **CUSTODIAL SUPPLIES, EQUIPMENT SELECTION AND MAINTENANCE**

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# TOPICS OF DISCUSSION

Maintain clean and healthy facilities

What types of products should we be using

What types of equipment should we be  
purchasing and using

Miscellaneous supplies and equipment

Equipment information and PM's

# DISINFECTANTS

**REMEMBER:** Disinfecting and sterilizing are two different modes of cleaning.

**STERILIZING:** is a process that rids an article of all living organisms.

**DISINFECTING:** is a process kills disease producing organisms and is performed using chemicals.

# ENVIRONMENTAL PREFERRED PRODUCTS

Green cleaning and what does that mean...

Equipment selection with green options...

Chemicals? Equipment? Water?



\*\*Know if your District has policies for green products. 4

# DETERGENT TYPES

**IONIC DETERGENTS:** Are charged and can be either negatively (anionic) or positively (cationic) charged.

**NON-IONIC DETERGENTS:** Have no charge on the water end which helps make them superior as an oily soil emulsifiers.

Examples: Oxi-clean, Prominence, Borax, GP Forward, Degreasers, Glass cleaners.

**ANIONIC DETERGENTS:** When the surfactant consists of negatively charged group like sulphonate, sulphate and carboxylate.

Examples: High foaming hand soaps, carpet cleaners.

# DETERGENT TYPES Continued

**CATIONIC (Quats):** Have positively charged ends which makes them great for fabric softeners, disinfectants and cleaners.

Examples: Virex, Triad, Morning Mist, E-23 Disinfectant

**HYDROGEN PEROXIDES:** Leaves no residue. Short contact time. Hospital grade cleaner and disinfectants.

Examples: Alpha HP, Oxivir, E-15 Hydrogen Peroxide Cleaner

# TYPES OF CLEANING SUPPLIES



Glass Cleaner  
Disinfectants  
Multi-purpose Cleaner

Degreaser: Kitchen, Auto shop



9.25% Acid

27% Acid

Bowl Acid Cleaner: Toilets, urinals

Know what type you have: **low or high acid**  
**Use proper PPE!!**



Quaternary Disinfectant: Bathrooms, Special Ed, K-Grade

# USING CLEANING CHEMICALS

## Optimum Dilutions

Light Duty

Normal Duty

Heavy Duty

A little is good, **More is better.....(or is it)?**



# USING CLEANING CHEMICALS

- Use proper Personal Protective Equipment (PPE)

Label containers...Use approved sticky labels. NO NOT use masking tape and permanent markers!

Use appropriate chemicals for appropriate job. Only mix what you need.

Follow manufacturer's dilution rates.

Be aware of SDS sheets and know their locations

**NEVER MIX CLEANING PRODUCTS TOGETHER!!**<sup>9</sup>



# Ready-To-Use (RTU) vs Concentrated

## RTU

- Convenient
- More expensive (Shipping water, bottles, labels)
- No worry about improper dilutions



## Concentrated

- Economical
- Better for mop buckets, auto scrubbers etc.
- Less waste, if follow correct dilution.
- Dilution Concerns (Glug, Glug)



# THINGS TO KNOW

- Test products you may want.

Develop criteria and standardize District's wants

Have a plan in place for introducing new products

Standardize products throughout your district

Use a vendor that provides dilution stations. Have the vendor install stations and train employees.

Is plumbing up to code for dilution stations?

Are back-flow preventers required?

# FLOOR CLEANING PRODUCTS

Neutral Cleaner  
Stripper

Sealer...if still used  
Wax...gloss/matte

Crystal shield products  
Polished concrete

Twister Pads  
Intelli Pads

Carpet extractor

**Gear purchases to your type of floor maintenance**

# TYPES OF CLEANING EQUIPMENT



Doodle Scrub



Hydro Link battery filling system



Twister and Intelli Pads (pads saturated with micro diamonds. Polish & clean w/o chemicals)

# EQUIPMENT CONT.

## Intellibot Robotic Scrubbers



Omni-Flex



# EQUIPMENT CONT.



Then Attachments

Traditional vacuuming



Cordless Back-Pack and Uprights



Corded Backpack



Robotic vacuuming



# EQUIPMENT CONT.



**Clorox** TOTAL 360 Clorox® Total 360™ System



Traditional mopping system



Hygienic mopping system



Traditional mopping to micro fiber



Protexus Evaclean Sprayer



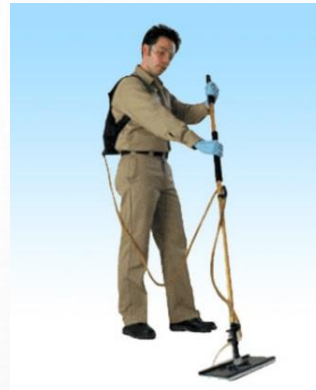
Dirty Rag to micro fiber table top kits



# EQUIPMENT CONT.



Base Board Edger



Backpack waxing kit

Stingray window cleaning kit



Square Scrub



Port A Scrub



Trailblazer

Power Washer



# LAWN EQUIPMENT



# LAWN EQUIPMENT CONTINUED



# SNOW REMOVAL EQUIPMENT



# SNOW REMOVAL EQUIPMENT CONTINUED



# EQUIPMENT INFORMATION & PM's

## Example 1:

Equipment	Brand Name	Model	Serial #	Purchase Date
Rider Scrubber	Nobles	Speed Scrub, 28"	612219- 10227796	May 16, 2014
Walk Behind	Nobles	ecH2O nano, 26"	612310- 10456845	May 16, 2014
Upright Vacuum	Advance	VU500	12-889566	May 16, 2014

Date	Equipment Name	PM completed	Parts Replaced
May 23, 2014	Nobles Speed Scrub, 28"	Checked and filled batteries, cleaned screens	None
May 23, 2014	Nobles ecH2O nano, 26"	Checked and filled batteries, cleaned screens	None
June 16, 2014	Advance upright vacuum	Checked belts and brushes	Changed brushes





