

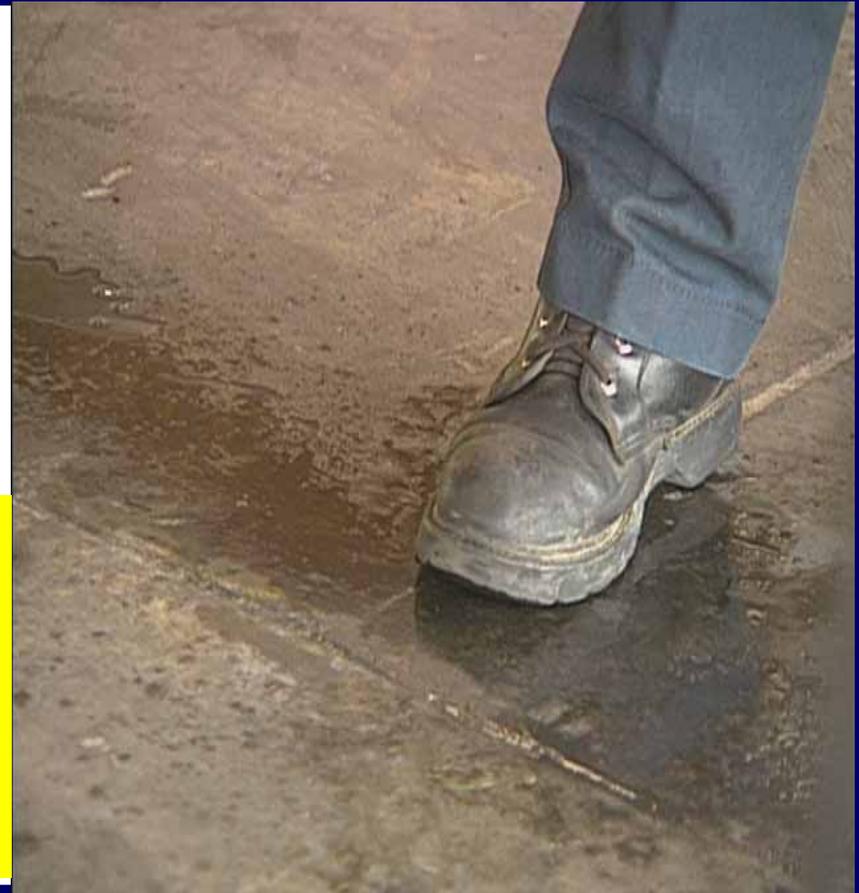
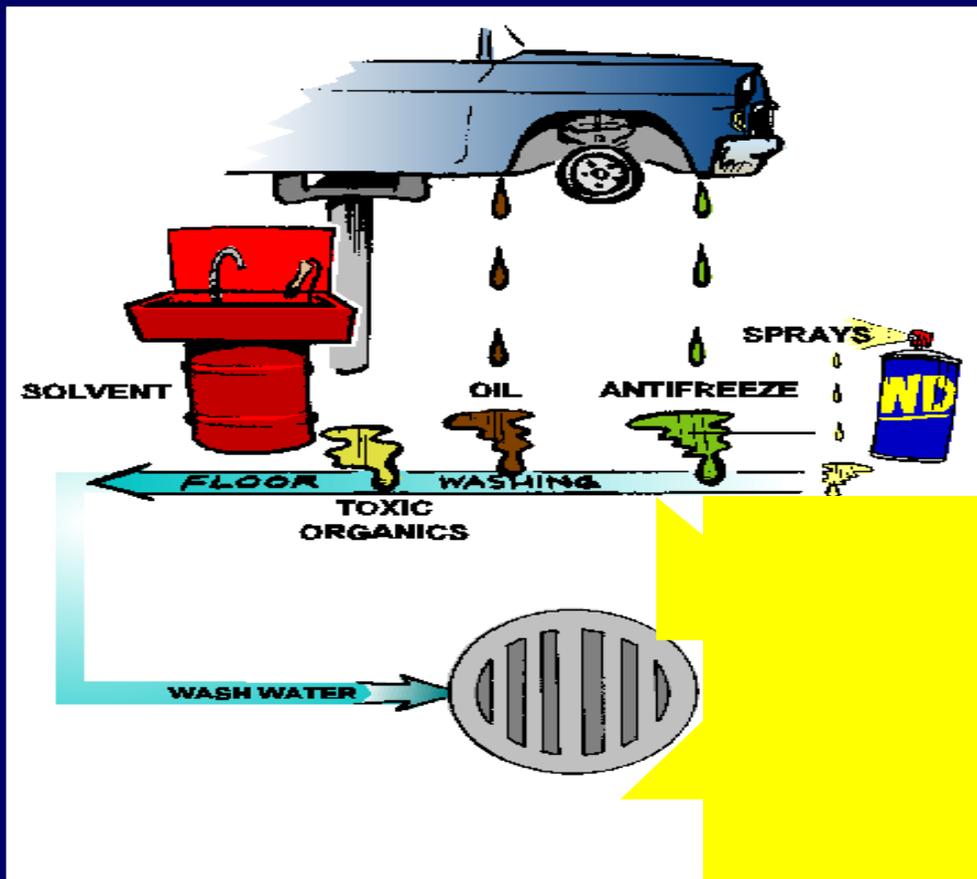


Unit 8

Spill Prevention

and Floor Cleanup

Baseline: Safety Hazards and Contaminated Wash Water



Environmental Concerns

- **Sanitary sewer discharges**
 - **metals in treatment sludge**
 - **“pass through” contaminants**
- **Storm drains discharge directly to surface water**
- **Dry well discharges can contaminate groundwater**

P2: Use Roll-Around Drip Pans



P2: Use Sloped Drum Covers



P2: Secondary Containment



P2: Overhead Bulk Delivery



P2 Alternative: Dry Shop

- Use dry clean up methods
- Use launderable rags for small spills
- Segregate spill wastes (4-step method)
- Use absorbents sparingly
- Epoxy-seal floor to reduce cleaning needs

Making It Work

Q1: Gasoline or solvent spill?

If Yes → Absorbents

If No → Q2

Making It Work

Q2: Cleanup with ≤ 3 rags?

If Yes \longrightarrow Use the rags

If No \longrightarrow Four-step floor cleanup

Four-Step Floor Cleanup

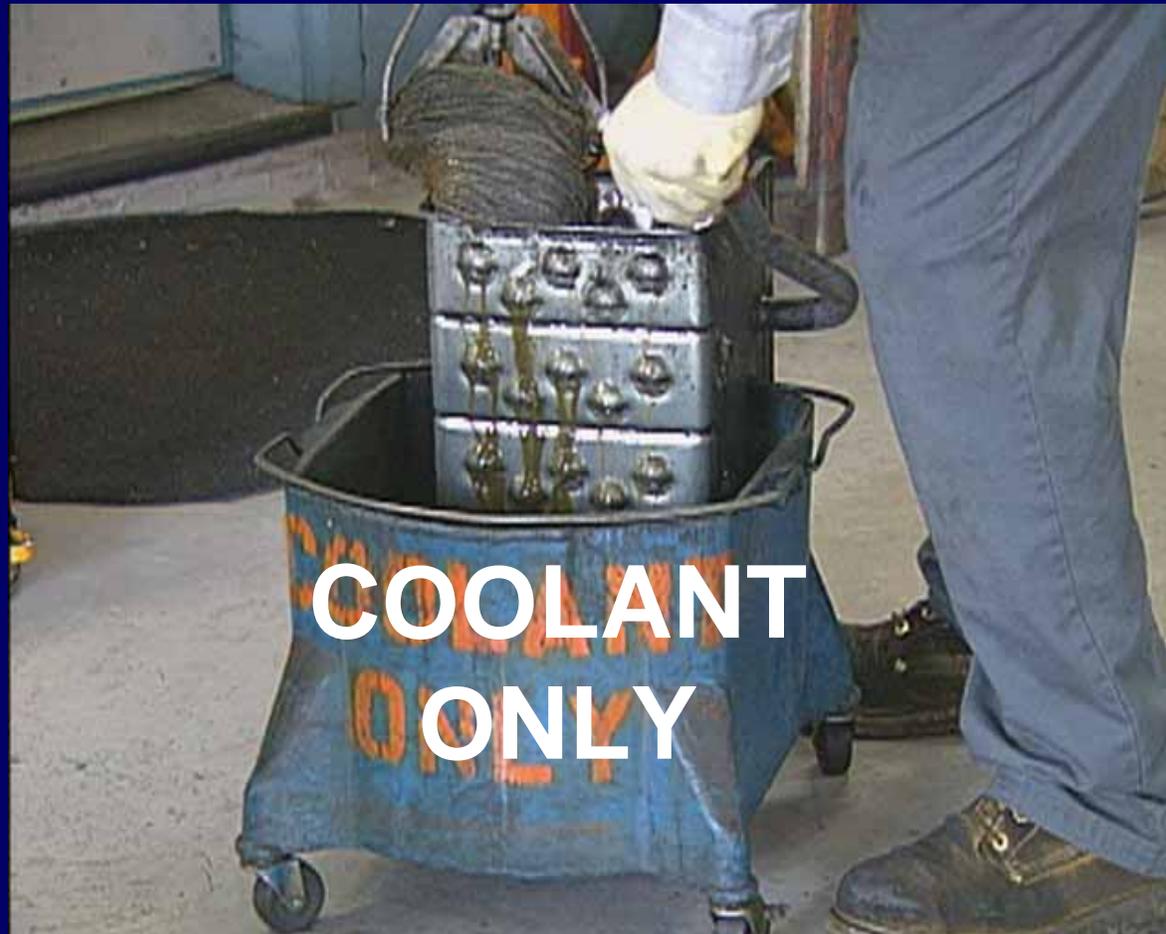


Step 1: Oil Spill?



Use hydrophobic mop.

Step 2: Antifreeze Spill?



Use dedicated antifreeze mop.

Step 3: Dry Surface



Wipe up with rags.
Do not saturate.

Step 4: Wet Mop



Use mild, non-caustic detergent.

Making It Work

Minimize Absorbents

- **Disadvantages:**
 - **Spilled oil and antifreeze cannot be recovered**
 - **Must be purchased repeatedly**
 - **May be a hazardous waste**
 - **Contaminants may be released to environment**
- **Reserve absorbents for large spills and emergencies**
- **Where possible, use reusable pads and pigs**

Making It Work

Epoxy-Seal the Shop Floor

- **Won't absorb spills as a concrete floor does**
- **Makes spill cleanup easier**
- **Requires less time and water to clean**
- **Lasts for years and reduces long-term liability for floor contamination**
- **Looks great to customers and worker**

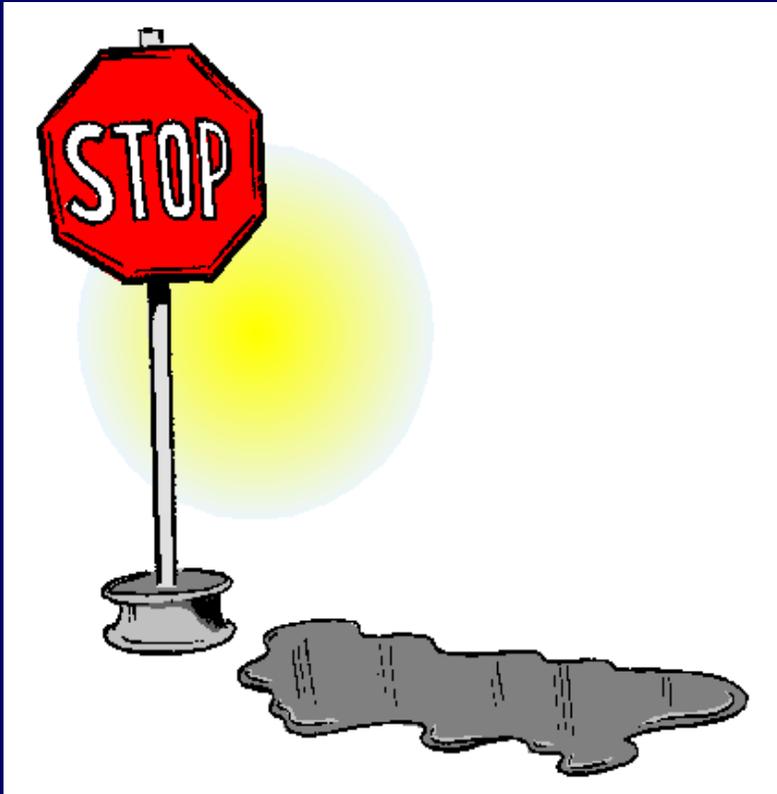
Making It Work

Power Washing

- Is wash water properly disposed?
- Even if a contractor power washes the floor, you can be held liable for illegal disposal.



Take Home Messages



- **Stop if there's a drop!**
- **Source segregation**
- **Use absorbent sparingly**
- **Epoxy floors make this easy**