Product Cleaning Guide: Safe and Effective Practices

This guide outlines the best practices for cleaning Power Technologies products.

General Cleaning (For Routine Maintenance):

- **Use General Household Cleaners:** For everyday cleaning, standard household cleaners are sufficient and safe.
- **Application:** Apply a small amount of cleaner with a soft cloth or sponge.
- **Removal:** Wipe away the cleaner with a clean, damp cloth.
- **Dust Removal:** For hard-to-reach areas, such as shelves between dividers, use a duster or air duster to remove hair, fuzz and other debris.

Disinfection Guidelines for Non-Electrical Components: Exterior Surfaces and Interior Shelving

Option 1: Bleach Solution (10:1 Dilution):

- Mix 1 part household bleach with 10 parts water.
- Apply the solution to the surface with a cloth or sponge.
- Rinse thoroughly with clean water.
- Option 2: Isopropyl Alcohol Solution (70% Dilution):
 - Mix 70% isopropyl alcohol with water to achieve a 70% concentration. (if you have 70% isopropyl alcohol, you do not need to dilute it)
 - Apply the solution to the surface with a cloth or sponge.
 - Allow the solution to evaporate.
- Safety Precautions for Disinfectants:
 - Always wear appropriate protective gear, such as gloves, when working with bleach or alcohol.
 - Ensure proper ventilation.
 - Keep disinfectants out of reach of children and pets.
 - Never mix bleach with ammonia.

Important Reminders When Cleaning:

- Avoid Abrasive Cleaners: Do not use abrasive cleaning solutions, as they can damage the product's surface.
- Avoid Acidic Cleaners & Harsh Chemicals: Do not use acidic cleaning solutions or harsh chemicals, as they can corrode or discolor paint.
- Always test any cleaning solution on a small, inconspicuous area first.
- Regular cleaning is essential for maintaining the product's appearance and hygiene.
- Always let areas dry completely before use.

Troubleshooting

USB-C Port and Cable Failure:

Key Issues and Causes:

- Fragile Design:
 - USB-C connectors have very closely spaced pins (0.5mm).
 - This makes them highly susceptible to damage from even small particles.
 - Think of a grain of sand (0.5-2mm) as a potential culprit.

• Debris and Liquid:

- $_{\odot}$ $\,$ Dust, sand, lint, and liquids can easily enter ports.
- These contaminants can cause:
 - Short circuits.
 - Corrosion.
 - Heat buildup.

• Physical Damage:

- Bent or crushed connectors (e.g., from being shut in doors).
- Excessive force during insertion or removal.
- Cable strain from improper handling.
- Heat Buildup:

- Debris can cause poor connections.
- Poor connections generate heat.
- Excessive heat can melt the plastic housing, leading to pin misalignment and shorts.

Troubleshooting and Prevention Tips:

- 1. Visual Inspection:
 - Visually inspect ports and cables for:
 - Visible debris.
 - Bent or broken pins.
 - Signs of corrosion.
 - Crushed or broken connector housings.

2. Cleaning Recommendations:

- Use non-conductive tools (e.g., soft brushes, compressed air).
- Advice against using metal objects that could cause damage.

• Recommend Cleaning Kits:

- Affordable cleaning kits are available on Amazon (under \$10).
- These kits typically include brushes, swabs, and compressed air.

3. Handling and Storage:

- Avoid if possible:
 - Bending cables sharply.
 - Storing cables in tight spaces.
 - Leaving cables plugged in when not in use (especially in high-traffic areas).

4. Damage Assessment:

- Potential physical damage?
- Environmental factors (dusty, humid)
- Liquid encounter?

5. When to Escalate:

 If cleaning and basic troubleshooting do not resolve the issue, advise the contact technical support or consider a repair/replacement.

Key Takeaways:

- USB-C is a sensitive technology.
- Prevention is key.
- Simple cleaning and careful handling can significantly reduce failures.
- By providing this information, you are adding value to customer experience.

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