Protocol for Sanitizing Spools

1. Gather supplies:	
	Tank for soaking
	Cut, unwound seed spools
	Sodium hypochlorite (or bleach without any added chemicals)
	Aquarium pump
	Freshwater

- Paper towels

 2. If your spools were just cut, dip them in a water bath to rinse off the PVC particle dust.
 - Try to avoid washing the PVC sawdust down the drain. You can filter it out of the bath with cheesecloth or a small aquarium net.
- 3. Scrub your spools and rinse them with freshwater.

Spool storage bin

- Make sure you scrub all parts of the spool including the inside, top and bottom rims, and the edges of the v-notch.
- 4. Place a washer or similar spacer in the top and bottom of the slit on each spool to hold it open during bleaching.
 - The washers ensure that the bleach touches every part of your spool. Bleach is only effective through contact.
- 5. Prepare a tank and a small aguarium pump for soaking your spools.
 - Clean the tank and pump of any dust or other particles.
 - Circulate water in the tank with the small aquarium pump during the entire sanitizing process.
- 6. Fill the tank with enough freshwater to cover your spools.
- 7. Add bleach to your tank to exceed 500 ppm and let the bleach circulate.
 - Use 10 mL of household bleach per 1 L of water, or 3 tablespoons per 1 gallon.
 - Check the concentration using <u>chlorine test strips</u>.
- 8. Add your spools to the water and let them soak for at least 20 hours.
- 9. Add sodium thiosulfate to neutralize the bleach in the water in your tank.
 - Approximately 1–2 grams of sodium thiosulfate will be required or to neutralize 1 gallon of a 500 ppm chlorine solution.
 - Always use a test strip to check that the chlorine is neutralized after you add and stir in the sodium thiosulfate.
- 10. Let the spools soak in the neutralized water for at least 1 hour.
- 11. Remove the spools from the tank and leave them in a clean space to dry.
 - Place the spools on a clean surface in an area away from contamination sources, including running seawater.
 - Dust and contaminants in the air can stick to the wet spools and cause contamination issues in your nursery later on.
- 12. Once the spools have dried, store them in an airtight cabinet or bin that has been wiped down with ethanol.
 - Line the cabinet or container with clean paper towels to make sure the spools do not come in direct contact with the bottom or walls.
- 13. Keep the spools in a dry place until winding.
 - Use silica beads as a desiccant, if necessary, to keep the storage space dry.

