



# SynDaver Soft Tissue Care Instructions

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To be used in conjunction with the **Bi-weekly Maintenance Log**

For More Information About SynDaver Products

**813.600.5530 • [SynDaver.com](http://SynDaver.com)**

**SynDaver**  
Beyond Human

 **MANUFACTURED IN THE USA** • 8506 Benjamin Road, Tampa, FL 33634

# SynDaver Tissue Information

## Physical Properties

SynDaver synthetic tissues are made from salt, water and fiber—which feature the world's most realistic tactility. Developed in the early 2000's, this validated technology is used to replace live animals, cadavers and human patients in medical device studies, clinical training and surgical simulation.

## Storage Environment

Tissues are up to 70% water by weight and require an aquatic environment for storage. They may be safely refrigerated, frozen or heated to body temperature but should not be exposed to temperatures exceeding 150°F (65.5°C). Repeated freezing and thawing may alter the physical properties of the tissues.

## Tissue Handling

As a close analog to live tissue, SynDaver tissues present ideal conditions for microbial growth without the benefit of an immune system. Like open wounds, they require clean handling. Follow the simple guidelines on the next pages to ensure longevity. With diligent care, tissues can last for years. SynDaver has tissues over twenty years old in its historic archive. The salts in the soft tissue may be corrosive to some materials. Use tools safe for a surgical or marine environment.

## Good Laboratory Practices

To protect and preserve the product, follow good laboratory practice (GLP) and wear personal protective equipment (gloves, goggles, lab coats and masks) to reduce the synthetic tissues' exposure to microorganisms and maximize the life of your product.

## Initial Setup

### For Full Bodies

Your installation technician will help you set up your full body using the [Installation and Maintenance Guideline](#). This document and a comprehensive video are available at [syndaver.com/care](http://syndaver.com/care).

### For Task-Specific Trainers

Please view the [SynDaver Storage System Quick Start Guide](#) (included with your package and viewable at [syndaver.com/care](http://syndaver.com/care)) for initial setup of your storage system. An unboxing and setup video is also available at [syndaver.com/care](http://syndaver.com/care).



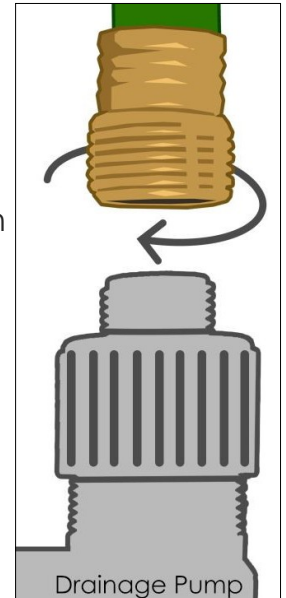
SynDaver synthetic tissues are made from salt, water and fiber, which are nontoxic. Clean handling is required to protect the tissues from microbial invaders that can infect the live tissue analog. Wear clean, disposable gloves while you perform maintenance and any time you handle SynDaver synthetic body.

## Step 1: Drain Water



Included with each body is a drainage pump (left). Place the drainage pump in a corner of your storage tank and attach the included garden hose. Direct the other end of the garden hose to a sink or other type of drain and then plug in the pump to begin drainage.

**Immersion Tanks:** Immersion tanks have a drain at the bottom to which a garden hose may be attached. Use this as an alternate drainage method if preferred.



## Step 2: Treat the Soft Tissues with Opti-Cide<sup>3</sup>

Use the included Opti-Cide<sup>3</sup> disinfectant to spray all the surfaces of the synthetic body, including between muscles where possible, the back of the body and inside any open cavities. Rinse only if required to remove foreign matter.

## Step 3: Disinfect the Storage Tank with Opti-Cide<sup>3</sup>

Use the same included Opti-Cide<sup>3</sup> disinfectant to spray all the inside surfaces of your storage tank. If any has debris accumulated inside the tank, it can be gently wiped away with a paper towel after the disinfectant spray has loosened it.

**Immersion Tank:** Immersion tanks have a tray under which microorganisms may populate. Remove the tray by disconnecting the tray cables and spray the tray and beneath the tray with Opti-code<sup>3</sup> thoroughly before reconnecting the tray cables. Visit [syndaver.com/care](http://syndaver.com/care) for a video demonstration.

## Instructions (Cont.)

### Step 4: Clean the Circulation Pump

Disassemble the circulation pump and disinfect its surfaces and coarse filter before reassembly.

### Step 5: Inspect the Tissue Surfaces

Inspect all soft tissue surfaces, including the backs of bodies. Any black or brown spots that cannot be gently rubbed off may be microorganisms feeding on and growing in the tissues. Contact SynDaver immediately if you notice this.

### Step 6: Refill the Tank

With the circulation pump and SynDaver product in the tank, fill the tank with clean water using the garden hose to attach to a sink if necessary. Ensure the circulation pump is plugged in after the tank is filled.

### Step 7: Add Storage Solution

Measure out storage solution (HTH Super Algae Guard) with the included measuring device and pour it near the circulation pump for maximum distribution. 1 mL of algacide in every 5 gallons of water.

**NOTE:** Storage solution may cause harmless cloudiness in the storage water.

### Step 8: Add Treatment Additives

Open one of the premeasured packets of treatment additive and pour it near the circulation pump. Do not allow the grains to settle on the tissue surface, as it may cause damage. Gently brush the grains off of the tissue surface if they land there. 1 gram of granule in every 30 gallons of water.

### Optional: Add Scent Boosters

If the preservatives create an undesirable odor, you may sprinkle the included Downy Scent Booster pellets into the water to add a pleasant fragrance. For high volume containers, add up to a handful if desired.

**Our team is here to serve you! If you have any questions or concerns about the maintenance, appearance, or odor of your SynDaver product, contact us at:**

**Email: [care@syndaver.com](mailto:care@syndaver.com)**

**Phone: (813)600-5530**

**Tampa, FL 8am—5pm EST**

**Perform these steps once every two weeks. Track your maintenance with the SynDaver Bi-Weekly Maintenance Log**

SynDaver Bi-Weekly Maintenance Log © 2018

**SynDaver**  
Original Invention

Body/Product Name: \_\_\_\_\_

### Bi-Weekly Maintenance Log

For each maintenance cycle, all activities outlined in the [SynDaver Soft Tissue Care Instructions](#) must be performed

	Open Drain	Rinse and Refill Soft Tissue	Wash and Rinse Tank	Clean Circulation Pump	Full Tank	Add Storage Solution	Add Treatment Additives	Performed By	Date
WK 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WK 25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Visit <https://www.syndaver.com/syndaver-care> for instructional videos and other support documentation. Please contact the SynDaver Care Team with any questions or concerns regarding the care and storage of your SynDaver product.

care@syndaver.com | 1-813-600-5530 (M-F 8am-4pm EST)

Detailed videos, additional resources and the Bi-Weekly Maintenance Log may be accessed at:

**[syndaver.com/care](https://www.syndaver.com/care)**

## Frequently Asked Questions

### **If I need more treatment additives or storage solution, how do I get them?**

Contact SynDaver! We can supply more preservatives or help you find source that's convenient for you. Email us at [care@syndaver.com](mailto:care@syndaver.com) for assistance.

### **There's discoloration on the surface of my SynDaver product or container, what is that?**

Your product or storage water may have been exposed to microorganisms. Microorganisms may come from soiled gloves, unsterilized tabletops or from the air. Perform an early maintenance cycle to eliminate the microbes. Caught early, infections can be cured without great effort. Gently rub away any spots you see on the tissue surface. If the issue persists after this maintenance cycle, we can help. Contact us at [care@syndaver.com](mailto:care@syndaver.com) with photos of the concerning spots so our experts may assist in curing the infection.

### **Is it okay if I miss a maintenance cycle or do it less frequently than every other week?**

In order to keep your investment in top condition, perform maintenance every other week as recommended. Deterioration or infection will occur if maintenance is not performed properly. Damage caused by improper maintenance or handling will void any service agreements in place for your item.

### **My storage water seems cloudy, is that normal?**

The storage solution (HTH Super Algae Guard) may cause storage water cloudiness that is not harmful. If the cloudiness is white in color and is not associated with a musty smell, it may be safely ignored. If there is a brownish color or musty odor, airborne or hand-borne microorganisms may have entered your storage water. In this case, perform an early maintenance cycle to eliminate the microbes.

### **I think the bones or teeth are looking slightly yellowish, is that okay?**

This harmless change is a result of keeping the products in an oxidative environment and is a part of the natural aging process of the bone material.

### **Can I use a different container than the one included with my SynDaver product?**

Yes, however it's vital that the proper amount of preservatives are used for the new container's volume. Contact us via [care@syndaver.com](mailto:care@syndaver.com) so that we may help you alter preservative dosages if necessary.

### **The color on my SynDaver product seems to be fading. What's happening?**

Some minor fading is expected to occur after extended time as a part of the natural aging process of the tissue, however if you are observing fading at a rapid pace, the preservatives may be interacting with sediments within your local water source. Contact us at [care@syndaver.com](mailto:care@syndaver.com) for support.

### **Can I use bleach on the tissues or in the storage water?**

It is not safe to expose SynDaver tissues to bleach. Just like real human skin, tissue damage may occur.

### **How long can I have my product out before I should put it back in the water?**

SynDaver soft tissues may be out of the water as long as they do not become dry. If you plan to have your item out of the water for several hours, consider keeping a spray bottle with water nearby. Spritz the tissue surfaces occasionally to keep them hydrated.