

# SynDaver Care and Storage Guide - Small Products

SynDaver Labs' synthetic human tissues simulate real human tissue. Like open wounds, they present ideal conditions for microbial growth. Diligent care must be exercised in order to ensure the longevity of SynDaver soft tissues. Follow these simple guidelines and your SynDaver soft tissues will last for years to come.

SynDaver synthetic human tissues and body parts are manufactured from water, fibers, and salts. Small SynDaver products are shipped in sealed plastic bags with water treated with the SynDaver Storage Solution (> 0.1% benzalkonium chloride). Non-soft tissue items (such as chassis, foam torsos, tablets, and pumps) do not require submersion or special storage.

**SynDaver Labs products may carry a unique odor after being sealed in the package with free air. The scent is no cause for concern and will be diminished by following the steps below.**

## Initial Care

Upon receipt of your product, immediately open the bag carefully in or near a sink and drain the shipping solution. Using clean water and a small amount of dish soap, gently hand scrub and thoroughly rinse the product. Your SynDaver trainer is now ready to use. Store it in a water tight bag or any other plastic container (ex. Ziploc bags, Tupperware, Sterilite container). Please follow the steps below for long and short term storage instructions.

## Storage of Small Products

**Perform maintenance on SynDaver products after each use or after 2 weeks of non-use.**

1. Put on new rubber gloves. Never handle the products without gloves to minimize its exposure to bioburden.
2. Discard the old storage water from the container.
3. Using clean water and a small amount of dish soap, gently hand scrub and thoroughly rinse the product and container.
4. Fill the container with clean water until the item is fully submerged.
5. If you are storing inside a bag, exclude as much free air as possible before sealing. If the item is being stored in a plastic container, make sure the product is fully submerged. If it is not fully submerged, place wet towels over the exposed areas. Dyes used in colored towels may stain soft tissues, therefore only white towels should be used to prevent staining. These towels should be changed after each use.
6. Stir a small amount of dish soap into the water to help prevent microbial growth after each use. One teaspoon is more than adequate for a small product such as a tissue plate.
7. Cover the containers to minimize introduction of air pollutants into the storage water.

Use the final page of this guide to help manage your maintenance schedule. Post it near your storage container and reference it for previous maintenance.

## Storage of Small Products in High Quantities

If storing a high quantity of small products, you may store them together in a single larger container. In addition to following the steps above, add SynDaver Storage Solution (sold separately) to the storage water of the large container. Please refer to Pg. 3 for SynDaver Storage Solution quantities.

For more information about SynDaver Storage Solution including MSDS sheets, please visit:

[syndaver.com/care](http://syndaver.com/care)

## Good Laboratory Practice

To protect and preserve the product, follow good laboratory practice and wear personal protective equipment (gloves, goggles, lab coats and masks) in order to keep the tissues clean and maximize the life of your product.

## Equipment

SynDaver tissues are up to 90% water by weight and contain salts which may be corrosive to some materials. Use tools safe for a marine or surgical environment.

## Hydration

When thin tissue sections are exposed to air for extended periods, they should be periodically soaked or misted with water. Please note that small and thin parts will become dry more quickly than thick parts.

## Temperature

SynDaver products may be safely refrigerated, frozen or heated to body temperature but may not be exposed to temperatures exceeding 150°F. It is not safe to use an autoclave on SynDaver products as the extreme temperatures used to sanitize items will destroy the tissues.

## Containers

All products should be stored submerged, you may store multiple items in a single container. Always add excess water and exclude as much air as possible from the container.

## General Storage Information

The container should be drained and refilled before adding dish soap or SynDaver Storage Solution every two weeks. Frequency of handling, local biology and municipal water quality (ex. hardness) will all influence the condition of the container.

Please note that the product must be fully immersed. If it is not fully submerged, place wet towels over the exposed areas. Dyes used in colored towels may stain soft tissues, therefore only white towels should be used to prevent staining. These towels should be changed after each use.

## Odor Reduction

If any malodor develops before your regular replenish cycle is complete, reduce the time period between water changes.



*SynDaver Storage Solution*

**SynDaver Storage Solution may cause cloudiness when mixed with water.  
Cloudy solution will not affect the quality of the product.**

## Storage Solution Dosage Guide

Please note that this is a general guide and actual gallons per container may vary depending on the size or quantity of products stored inside. Adjust your figure as needed and add the storage solution at a ratio of 1mL per every 5 gallons. Hard water may require a slightly higher concentration. Add storage solution into the water and mix thoroughly before placing the product inside. Some SynDaver trainers (such as the Paracentesis Trainer) contain foam rubber components. These foam parts must be stored separately in a dry environment.

Container (Total Capacity)		Products	Storage Solution
<b>Sterilite Small</b> 16 quarts (4 gallons) 23¾"L x 16⅜"W x 12⅜"H		Adult Cric Trainer Newborn Airway Trainer Pediatric Airway Trainer	1 mL
<b>Sterilite Medium</b> 28 quarts (7 gallons) 23"L x 16¼"W x 6"H		Arthrocentesis Knee Anatomy Arm	1-2 mL
<b>Sterilite Large</b> 56 quarts (14 gallons) 23"L x 16¼"W x 12⅜"H		Central Line Trainers Adult Airway Trainer	2-3 mL
<b>Sterilite X-Large</b> 66 Quarts (16.5 gallons) 23¾"L x 16⅜"W x 12⅜"H		Large Trainers	3 mL
<b>Pelican iM 2100</b> 2 gallons 14½"L x 11⅜"W x 6½"H		Adult Cric Trainer Newborn Airway Trainer Pediatric Airway Trainer	1 mL
<b>Pelican iM 2450</b> 6.5 gallons 13"L x 9 ⅞"W x 6"H		Adult Airway Trainer Lumbar Inserts	1-2 mL
<b>Pelican 1730 Case</b> 42 gallons 34"L x 24"W x 12½"H		Multiple or large items such as Spine with Skin	8-9 mL
<b>ECS Case or Acrylic Tank</b> 60 gallons 70"L x 26"W x 18"H		SynDaver Synthetic Humans	10 -14 mL

Questions may be addressed to our company Safety Officer via [info@syndaver.com](mailto:info@syndaver.com).

# Maintenance Schedule for SynDaver Products

Perform maintenance on SynDaver products after each use or after 2 weeks of non-use.

1. Put on new rubber gloves. Never handle the soft tissues without gloves to minimize its exposure to bioburden.
2. Discard the old storage water from the container.
3. Using regular tap water and a small amount of dish soap, gently scrub and thoroughly rinse the product and container.
4. Fill the container with clean water until the item is fully submerged.
5. If you are storing inside a bag, exclude as much free air as possible before sealing. If the item is being stored in a plastic container, make sure the product is fully submerged. If it is not fully submerged, place wet towels over the exposed areas. Dyes used in colored towels may stain soft tissues, therefore only white towels should be used to prevent staining. These towels should be changed after each use.
6. Stir a small amount of dish soap into the water to help prevent microbial growth after each use. One teaspoon is more than adequate for a small product such as a tissue plate.
7. Cover the containers to minimize introduction of air pollutants into the storage water.

For more info visit [syndaver.com/care](http://syndaver.com/care) - Mark the calendar each date maintenance is performed:

## 2016 Calendar

January 2016							February 2016							March 2016							April 2016										
W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S
53						1	2	5		1	2	3	4	5	6	9			1	2	3	4	5	13						1	2
1	3	4	5	6	7	8	9	6	7	8	9	10	11	12	13	10	6	7	8	9	10	11	12	14	3	4	5	6	7	8	9
2	10	11	12	13	14	15	16	7	14	15	16	17	18	19	20	11	13	14	15	16	17	18	19	15	10	11	12	13	14	15	16
3	17	18	19	20	21	22	23	8	21	22	23	24	25	26	27	12	20	21	22	23	24	25	26	16	17	18	19	20	21	22	23
4	24	25	26	27	28	29	30	9	28	29						13	27	28	29	30	31			17	24	25	26	27	28	29	30
5	31																														

  

May 2016							June 2016							July 2016							August 2016										
W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S
18	1	2	3	4	5	6	7	22				1	2	3	4	26						1	2	31		1	2	3	4	5	6
19	8	9	10	11	12	13	14	23	5	6	7	8	9	10	11	27	3	4	5	6	7	8	9	32	7	8	9	10	11	12	13
20	15	16	17	18	19	20	21	24	12	13	14	15	16	17	18	28	10	11	12	13	14	15	16	33	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	25	19	20	21	22	23	24	25	29	17	18	19	20	21	22	23	34	21	22	23	24	25	26	27
22	29	30	31					26	26	27	28	29	30		30	24	25	26	27	28	29	30	35	28	29	30	31				
															31	31															

  

September 2016							October 2016							November 2016							December 2016										
W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S	W	S	M	T	W	T	F	S
35					1	2	3	39						1	44			1	2	3	4	5	48						1	2	3
36	4	5	6	7	8	9	10	40	2	3	4	5	6	7	8	45	6	7	8	9	10	11	12	49	4	5	6	7	8	9	10
37	11	12	13	14	15	16	17	41	9	10	11	12	13	14	15	46	13	14	15	16	17	18	19	50	11	12	13	14	15	16	17
38	18	19	20	21	22	23	24	42	16	17	18	19	20	21	22	47	20	21	22	23	24	25	26	51	18	19	20	21	22	23	24
39	25	26	27	28	29	30		43	23	24	25	26	27	28	29	48	27	28	29	30				52	25	26	27	28	29	30	31
								44	30	31																					

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