



# Get GREEN with STARLAB

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*Passionate for Science.*



[www.starlabgroup.com](http://www.starlabgroup.com)

# GET GREEN WITH STARLAB



## GREEN ENERGY

Sourced from wind power for TipOne® manufacturing



## SMART PACKAGING

Packaging of StarGuard®  
COMFORT: 250 gloves in same size box as 100 gloves in conventional packaging



## BULK BUY

Save on packing resources and transport emissions by buying the case



## RECYCLE

Your used STARLAB products.

Find out more about our green initiatives:  
[www.starlab.click/green](http://www.starlab.click/green)





**REDUCE**

Up to 40 % plastic material saved for our new generation TipOne® tips



**REUSE**

TipOne® racks withstand repeated autoclave cycles while retaining stability, strength and shape.



**REFILL**

Save plastic waste and money by using our TipOne® REFILL



**DUAL USE**

Upcycle TipOne® racks into any creative idea you can think of



● **STARLAB locations:**  
France, Italy, United Kingdom and Germany.

# GREEN PRODUCTS

## REDUCE



**TipOne® Refills:** significantly reduce plastic waste with the TipOne® sterile and non-sterile refills.

Reduces single-use plastic. Space-saving (up to 20% sterile /35% non-sterile) reduces transport emissions.



**StarGuard® Gloves:** Comfort & Sensitive are packed in boxes of 250 & 200 gloves (respectively).

Up to 40% more gloves in same shipper size reduces transport emissions and packing materials.



**TubeOne® Microcentrifuge Tubes:** Long shelf life.

Long shelf life reduces waste. Supplied in recyclable LDPE bags.



**GuardOne® Workstation:** Flat packed for easy transportation. Eco-friendly consumables.

Minimal packing volume & weight reduces transport needs. Energy-saving LED light. Long-Life UV lamp.

## REUSE



**TipOne® Racks:** reuse your racks with the refill systems over and over again.

Sturdy reusable racks that have been tested to withstand at least 100 autoclave cycles.

## RECYCLE



**Centrifuge Tubes:** Racked tubes supplied in eco-friendly recyclable cardboard trays.

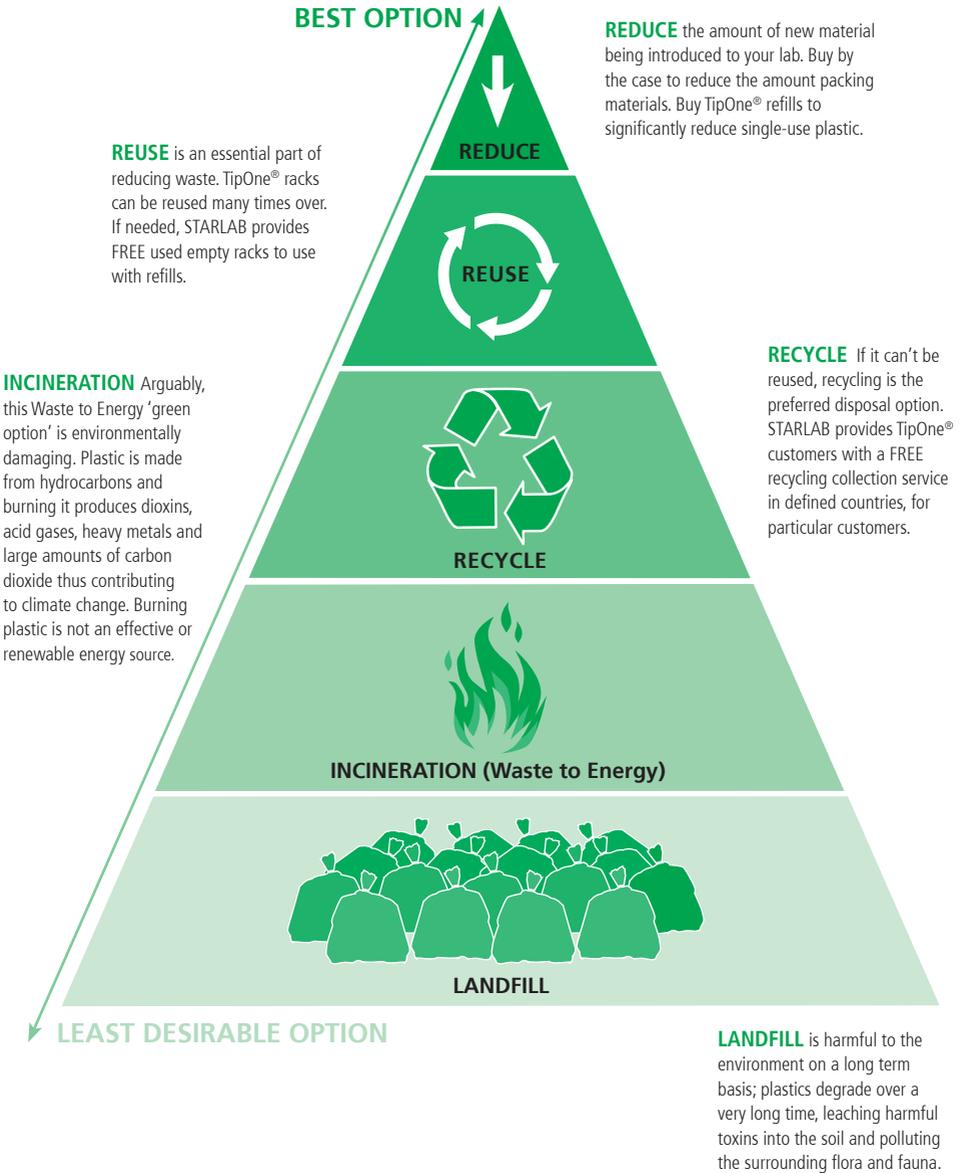
No polystyrene which is very hard/costly to recycle. Cardboard is a sustainable material.



**TipOne®:** all components of the system are recyclable

~1000 tonnes of plastic a year is saved from landfill and sent for recycling by STARLAB customers.

# WASTE HIERARCHY



# SAVE ON PLASTIC ...

**Up to 40 % less plastic** used in the manufacture of our new generation **TipOne® tips**. The recently updated **TipOne® system** dramatically saves on plastic compared to the original system...



TipOne



## NON-STERILE REFILL SHELLS

	Original PET Shells	New PP Shells	SAVING
10 µl	52 g	44 g	<b>15%</b>
20 µl XL*	260 g	124 g	<b>52%</b>
200 µl	52 g	44 g	<b>15%</b>
300 µl*	260 g	124 g	<b>52%</b>
1000 µl*	370 g	153 g	<b>59%</b>

Stated weights exclude tips and tip wafers. \*Includes spacers

## RACKED FILTER TIPS / STERILE RACKED TIPS vs FILTER TIP / STERILE TIP REFILLS

	Rack	Refill	SAVING
Small rack vols	59 g	22.0 g	<b>63%</b>
Large rack vols	89 g	41.5 g	<b>53%</b>

Stated weights exclude tips and tip wafers.

## RACKS



	Old Rack	New Rack	SAVING
Small rack vols	63.0 g	59 g	<b>6%</b>
Large rack vols	95.4 g	89 g	<b>6%</b>

Stated weights exclude tips and tip wafers.

**In total**, during the first 5 years, the new system has **saved 566.5 tons of plastic**. That's the equivalent weight of ~6,300 people, or 614 Smart cars!

# ... SAVE ON SPACE

The recently updated **TipOne® system** was redesigned to save on space, and thus reduce the requirements for both packaging resources and transport emissions...



## NON-STERILE REFILLS: ORIGINAL vs NEW

	<b>SPACE SAVING</b>
10 µl	<b>25%</b>
20 µl XL	<b>55%</b>
200 µl	<b>25%</b>
300 µl	<b>55%</b>
1000 µl	<b>66%</b>
1250 µl	<b>29%</b>

TipOne



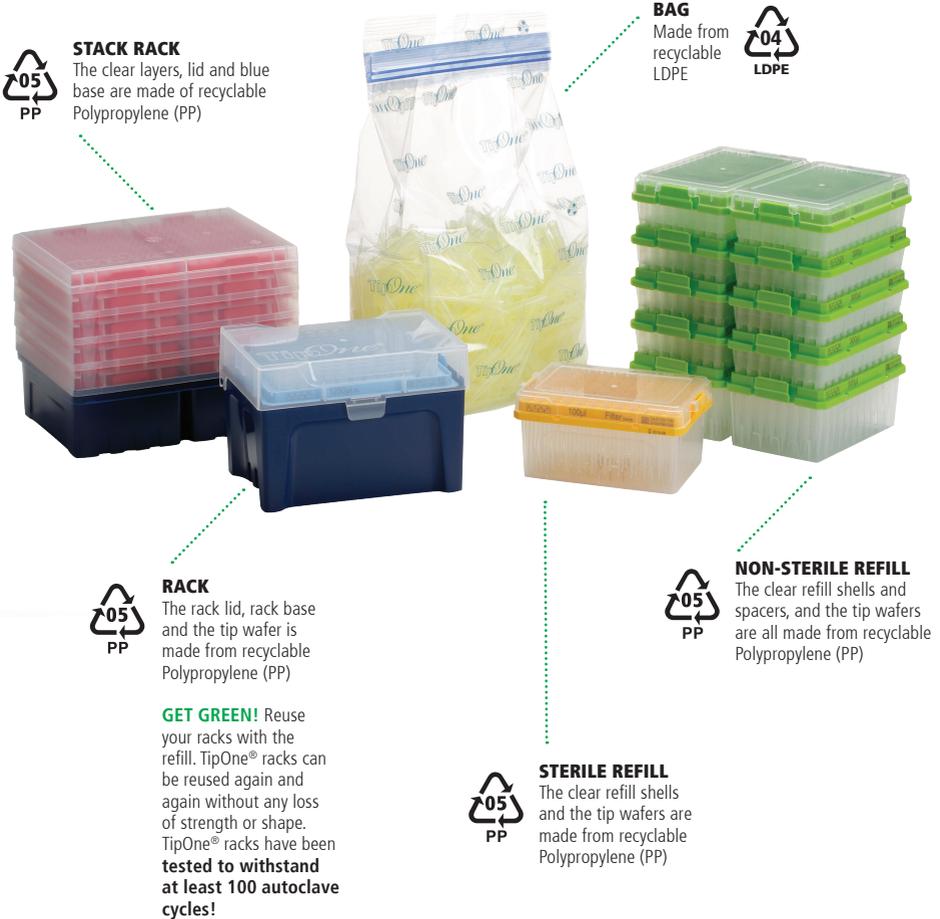
## CASE SIZES: ORIGINAL vs NEW

	<b>RACKS</b>		<b>NON-STERILE REFILLS</b>	
	<b>Original</b>	<b>New</b>	<b>Original</b>	<b>New</b>
10 µl	21	8	42	10
20 µl XL	21	8	12	10
200 µl	21	8	42	10
300 µl	21	8	42	10
1000 µl	8	4	9	10
1250 µl	8	4	4	10

Packs per case.

# RECYCLING TipOne®

All components of the **TipOne®** system are recyclable



# GET GREEN WITH STARLAB



## TIPS ON GREENING YOUR LAB

### Reuse TipOne® Racks for more than just tip refills

Save empty **TipOne®** racks to use with refills. Share surplus racks with other labs on your floor/ building. Aim for your site to reuse as many racks as possible, for example, don't send racks for recycling when others on-site are requesting empty racks.

Use to store tubes, caps and other small items to keep your bench or hood tidy. Use as autoclave vessels for tubes; the racks can withstand at least 100 autoclave cycles!



Reuse for storage or autoclaving small items

### Buy in bulk!

Buy by the case (STARLAB Cat. Nos ending with -C). It's greener and saves both transport emissions and packing materials.

### Think before you autoclave!

Many products are certified. Nine times out ten they probably don't need to be autoclaved. Think of the energy you can save.



Buy by the case

### Freezer management!

Set ultra low freezers to  $-70^{\circ}\text{C}$  rather than  $-80^{\circ}\text{C}$ ; this won't compromise the sample's integrity (but always test run with unimportant samples first!) but will save a lot of energy.

Buy efficient freezers & replace old inefficient freezers. Defrost regularly to avoid using more energy when loaded with ice. Discard old samples so freezer space is not wasted, and optimise freezer space with sample storage boxes for efficient energy use.



Optimise freezer storage

### Close it!

Close the fume hood sash when not in use. Even for fixed flow hoods, this can reduce the amount of heated or cooled air escaping the room.

### Switch it off!

Equipment not being use should be switched off. Even on standby, equipment can significantly increase the energy used.



# A GREEN COMPANY



STARLAB is **ISO 14001** accredited for Environmental Management. We are continually reviewing our products and internal processes so we can lessen the company's impact on the environment. Here are just a few of our green initiatives:

- Office:** The paperless office ... although probably an unrealistic goal, we are progressively digitising administrative processes reduce paper use to the minimum.
- Warehouse:** Reuse of cardboard boxes. Plastic padding replaced with 100% biodegradable paper packing. All waste (cardboard, pallets etc) is recycled. Old warehouse lighting replaced by energy-saving lamps.
- Sales Team:** Promotes the TipOne® refills as the eco-friendly and economical alternative to racked tips. Provide free empty racks for refill users. Help customers rationalise product inventory for efficient ordering and storage of products.
- Servicing Laboratory:** Calibration Certificates provided in PDF format. Car sharing and use of public transport to clinics, where possible.
- Marketing:** Reducing printed material and moving over to digital solutions. Online shop implementation provides paperless ordering process.
- Product Management:** Reviews and streamlines product portfolio. Audits packaging on existing products to reduce and improve where possible.
- R&D Department:** Development of greener products that result in the use of less raw materials without compromising quality.
- Manufacturing:** TipOne® is produced in a factory powered by just under one-third (27.5%) sustainable wind energy; this will increase to 100% in January 2021. Replacing old molding machines with new has resulted in a yearly energy saving of ~1.5 Mio kWh, which is equivalent to the annual consumption of ~375 households of four people!
- Purchasing:** Products purchased for the whole STARLAB group for more efficient transportation. StarGuard® gloves transported by the container without pallets to maximise capacity, and direct from manufacturing to minimise distance travelled.

# THE SUSTAINABILITY TEAM

Green Teams exist in each country within the STARLAB Group (UK, Germany, France and Italy). **GREEN TEAM** members are passionate about sustainability and green issues; their role is to research, identify and share ideas for improving STARLAB's sustainability ratings for both our products, and our internal processes.



Want to discuss ways of greening your lab? Have a suggestion on how we can improve? Or maybe you have a green initiative that STARLAB could partner with you?

Contact the Starlab **GREEN OFFICER** via [marketing@starlab.co.uk](mailto:marketing@starlab.co.uk)  
We are open to all suggestions and will be happy to hear your ideas!

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