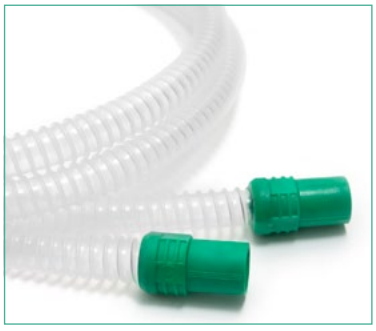
# Sustainable development

## Eco products providing a better environmental choice



Greener ▪ Lighter ▪ More Comfortable

INTERSURGICAL®
COMPLETE RESPIRATORY SYSTEMS

Quality, innovation and choice

Interact with us

www.intersurgical.com

Intersurgical is a global designer, manufacturer and supplier of a wide range of high quality medical devices for respiratory care and support. Our goal is to provide best practice respiratory product solutions for both patients and clinicians, offering quality, innovation and choice. The extensive product range covers the four areas of airway management, anaesthesia, critical care and oxygen & aerosol therapy and are designed for use in emergency prehospital settings, hospitals and home care.

All of our products are designed and manufactured to meet the requirements of relevant BS, ISO and EN standards.

## Our Environmental policy

**We are committed to minimising the environmental impacts of the company's products, activities and services and to continually review and reduce our carbon emissions, with an aim to achieve Net Zero by 2045.[1]**

This is monitored and measured through our Environmental Management System certified to the international standard ISO 14001:2015. We follow this framework to establish and ensure a sustainable approach across the business and throughout the lifecycle of our products.

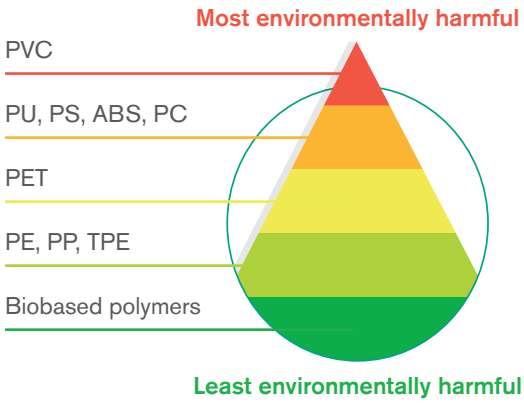
Full details of our Environmental Policy is available on our website www.intersurgical.com/support which details our commitment to a programme of continuous improvement.

Part of our commitment is a proactive approach to continuously improve our products and packaging, through material selection, with an aim to reduce their carbon emissions wherever possible. In response to health and environmental concerns associated with Polyvinyl Chloride (PVC), we have focused on reducing its use, resulting in the development of Intersurgical Eco products, which provide an option with reduced environmental impact compared to traditional PVC products.

## Choice of alternative materials

An essential requirement of the material used to manufacture oxygen and aerosol masks is that it should be soft enough to provide a good fit on a wide range of face shapes and be comfortable for the patient, in addition it should have sufficient transparency to enable the nose and mouth to be visualised. These qualities of softness and clarity have led to the extensive use of PVC in many medical devices over the years.

In our search for alternative materials that would support a reduction in carbon emissions and the clinical concerns associated with PVC, we have specified polymers that would also offer improved levels of patient comfort and product performance.

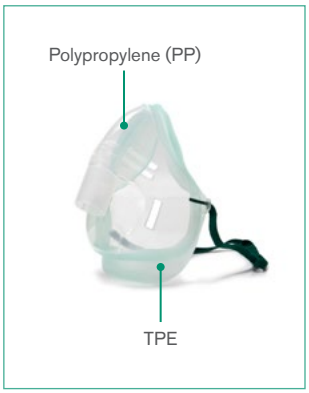


## Innovative manufacturing

We are constantly striving to improve our environmental performance at our global manufacturing sites, by reviewing our processes and investing in the latest energy saving equipment to proactively reduce our overall environmental impact.

Utilisation of state of the art manufacturing technology has also enabled us to combine two non-PVC materials in a number of our mask products. The polypropylene material forming the body of the mask is clear, lightweight and rigid enough to maintain the mask's shape, whilst the second softer TPE is utilised in the manufacture of the seal, which is in contact with the patient's face.

The use of these materials has resulted in oxygen, aerosol and anaesthetic face masks with significantly reduced environmental impact and improved patient comfort.




Intersurgical EcoLite™ oxygen mask

Intersurgical EcoLite™ aerosol mask

Intersurgical EcoLite™ Tracheostomy mask

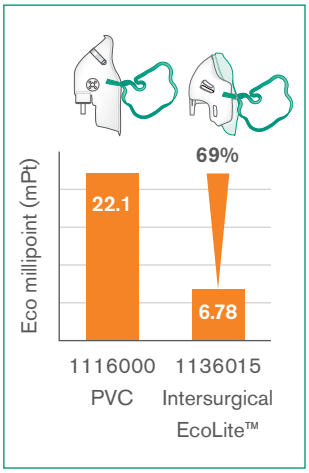
ClearLite™ anaesthetic face mask

## Comparing the environmental impact of products

We have used SimaPro 8 Life Cycle Assessment (LCA) software to assess the environmental aspects of our products following the ISO standards 14040:2006 and 14044:2006. By analysing the materials, packaging, energy used in manufacturing and disposal methods, this software enables us to quantify the environmental impact of our products, providing a number in units of Eco millipoints, which allows for all impact categories to be provided in a single value, including carbon emissions.

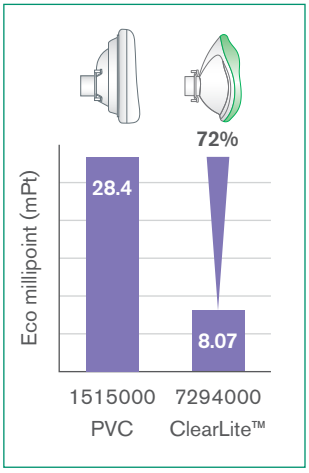
The following examples illustrate the reduction of environmental impact between a traditional PVC oxygen mask and the Intersurgical EcoLite™ oxygen mask, and a traditional PVC anaesthetic face mask and the ClearLite™ anaesthetic face mask.

| Code | Description | Eco millipoint score |
|---|---|---|
| 1116000 | Adult, medium concentration oxygen mask with nose clip — PVC | 22.1 |
| 1136015 | Intersurgical EcoLite™, adult, medium concentration oxygen mask — non PVC | 6.78 |




**Products with lower Eco millipoints are more environmentally friendly, the Intersurgical EcoLite shows a 69% reduction in environmental impact[2].**

| Code | Description | Eco millipoint score |
|---|---|---|
| 1515000 | Economy, anaesthetic face mask, size 4, medium adult, 22F — PVC | 28.4 |
| 7294000 | ClearLite™, anaesthetic face mask, size 4, adult, green seal, 22F — non PVC | 8.07 |




**Products with lower Eco millipoints are more environmentally friendly, the ClearLite shows a 72% reduction in environmental impact[3].**

Lower environmental impact product

## Lower environmental impact product

We have many products in our range which do not contain any PVC. However, our Eco range of products have been designed as part of our ongoing focus on sustainable development. Wherever you see the logo in our catalogues and website, we have reduced the environmental impact of these products compared to traditional PVC options, providing a better choice.

Comfortable for the patient
Comfortable for the environment

## The Intersurgical Eco range of products includes:

### Intersurgical EcoLite™ adult oxygen and aerosol masks

- Medium concentration oxygen mask
- Aerosol mask
- Sentri™ $ETCO_2$ mask
- FiltaMask™
- High concentration oxygen mask
- Venturi valve masks kits
- Tracheostomy mask
- Nebuliser mask kits

### Intersurgical EcoLite™ paediatric oxygen and aerosol masks

- Medium concentration mask
- Aerosol mask
- Nebuliser kits

### Anaesthetic face masks

- ClearLite™ anaesthetic face mask
- QuadraLite™ anaesthetic face mask

### One-piece Guedel range

### Breathing systems

- Eco Smoothbore breathing systems for passive humidification
- Eco Smoothbore breathing systems for active humidification
- 22mm Eco Smoothbore tubing

**Our Eco range of products are more comfortable for the patient and more comfortable for the environment for further details please visit our website.**

### Intersurgical EcoLite™

available at **www.intersurgical.com/info/IntersurgicalEcoLite**

Find out more

### Sustainability

Sustainability information available at **www.intersurgical.com/info/sustainability**

Find out more

### Environmental policy

Further information available at **www.intersurgical.com/support**

### Environmental policy

Find out more

Reference:

1. Environmental Policy www.intersurgical.com/content/files/114175/413038095
2. Life Cycle Assessment (LCA) Comparison of non-PVC and PVC Oxygen Masks (Issue 3)
3. Life Cycle Assessment (LCA) Comparison of non-PVC and PVC Anaesthetic Masks (Issue 3)

Sustainable_Range ▪ Issue 9 05.23

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