



Sustainable development

The Eco range



Greener ▪ Lighter ▪ More Comfortable



Intersurgical is Europe's leading designer, manufacturer and supplier of a wide range of medical devices for respiratory support.

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

We are also committed to lowering the environmental impact of our products and services and have implemented an Environmental Management System which has been 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.



Our Environmental policy states:

'Intersurgical is committed to minimising the environmental impacts of the company's products, activities and services, and the prevention of environmental pollution and sustainable resource use'.¹

Part of this commitment is a proactive approach to continuously improve our products and packaging through material selection. Due to both environmental and clinical concerns from health care professionals Polyvinyl Chloride (PVC) has been one material where we have particularly focussed our efforts and today the Intersurgical Eco range of products provide an alternative to traditional PVC options where possible.



Choice of alternative materials

An essential requirement of the material used to manufacture oxygen and aerosol masks, for example, 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.

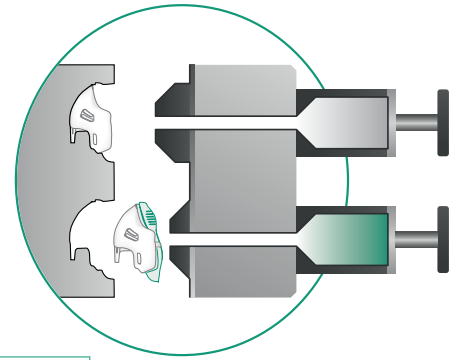
In our search for alternative materials that would address the environmental and clinical concerns associated with PVC, we specified polymers that would also offer improved levels of patient comfort and product performance.





Innovative manufacturing


Utilisation of the state of the art manufacturing technology has enabled us to combine two key non-PVC materials in the same mask product. 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 a range of anaesthetic face masks with a significantly reduced environmental impact and improved patient comfort.



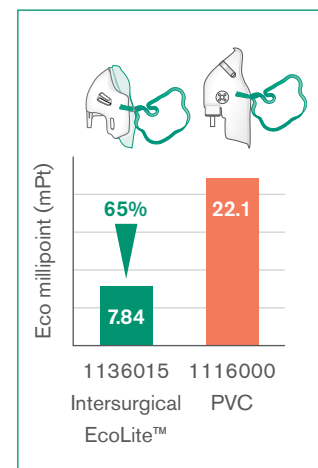
Comparing the environmental impact of products


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, giving us a number in units of Eco millipoints.

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.

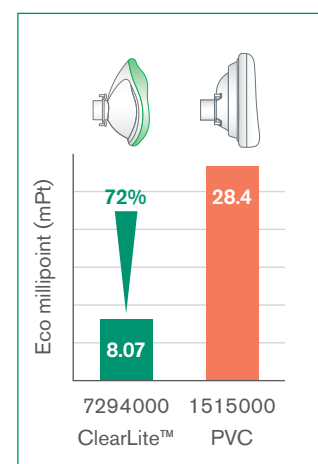
Code	Description	Eco millipoint score
1136015	Intersurgical EcoLite, adult, medium concentration oxygen mask — non PVC	7.84 
1116000	Adult, medium concentration oxygen mask with nose clip — PVC	22.1

Products with lower scores are more environmentally friendly, with the change from PVC resulting in a 65% reduction in environmental impact³.



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


Products with lower scores are more environmentally friendly, with the change from PVC resulting in a 72% reduction in environmental impact³.



 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.



Comfortable for the patient
Comfortable for the environment

The Intersurgical Eco range of products:



Intersurgical EcoLite™ adult oxygen and aerosol masks

- Medium concentration oxygen mask
- Aerosol mask
- Senti™ ETCO₂ mask
- FiltaMask™
- High concentration oxygen mask
- Venturi valve masks kits
- Tracheostomy mask
- Nebuliser mask kits



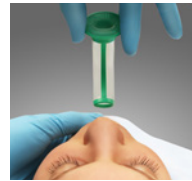
Intersurgical EcoLite™ paediatric oxygen and aerosol masks

- Medium concentration mask
- Aerosol mask
- Nebuliser kits



Anaesthetic face masks

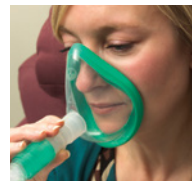
- ClearLite™ anaesthetic face mask
- QuadraLite™ anaesthetic face mask



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

Intersurgical EcoLite™

[Find out more](#)

Eco range

[Find out more](#)

Sustainability

[Find out more](#)

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The manufacturer Intersurgical Ltd is certified to ISO 9001:2015, ISO 13485:2016, ISO 14001:2015 and MDSAP

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