



## Project Information Sheet

### S.B.S. One

<b>Programme area:</b>	Biomedical sector, sanitary bags, PVC free, monolayer, polyolefins
<b>Coordinator:</b>	Meditalia S.r.l. via Alla Piana n.1 – Lovero (SO) - Italy E-mail: g.mazzaro@meditaliasrl.com Tel: +39 0342 771070
<b>Partners:</b>	Farmasol S.r.l. – Balvano (PZ) - Italy
<b>Website:</b>	www.
<b>Benefits (max. 150 characters incl. space):</b>	Which added value does your project generate?
<b>Keywords:</b>	PVC free, mono-layer, polyolefin biomedical bags
<b>Sector:</b>	Manufacturing Green Business
<b>Type of solution</b>	Process
<b>Duration:</b>	01/10/2013 – 30/09/2016
<b>Budget:</b>	€ 1.323.553 (EU contribution: 50%)
<b>Contract number:</b>	ECO/12/332956 SI2.655623 – S.B.S. One

#### Summary

The project, presented by Meditalia Srl and Farmasol Srl, important Italian factories in the biomedical bags manufacturing sector, will provide a new approach and an advanced process to produce bags for biomedical use, in PVC free polymer extruded in a single layer (monolayer) absolutely eco/bio compatible.

The new products are alternative to the problematic monolayer PVC bags and the multilayer PVC-free bags since PVC is toxic and harmful for the presence of plasticizers (carcinogenic) that can contaminate the content and concern problems when burned for destruction (dioxins and furans) and multilayer PVC-free bags have some problems about the presence of non bio compatibles adhesives between the films and the high cost that limits a wide diffusion on the market.

The material will be able to overcome the judgment of the market because will has the characteristics of absolute biocompatibility, greater eco sustainability (the production waste is recyclable in the same cycle) and cost appropriate to a wide use.

The new product based on polyolefins will have a lower energy footprint and will possess a lower CO2 footprint compared to plasticized PVC, as well as a lower embodied energy.

#### Expected and/or achieved results

Key outcome, impacts, expected uptake and potential market:

- safer and non-harmfully recyclable biomedical bags, polyolefin based, for dialysis and emoderivatives and chemotherapy fluids, presenting a maximum embodied energy of 70 MJ/kg and a CO2 footprint lower than 25 kg CO2/kg, values which are approximately 15% lower than current PVC products;
- recycling of the production waste and scraps in the process and no releasable plasticizer will be used, thus conferring to the new products the highest safety in use and during thermal destruction or recycling;
- The increasingly pointed out problems related to PVC manufacturing and use create a huge market for PVC-free or Phtalate-free biomedical bags with a strong demand driven by the buyers;
- EU is relying heavily on import and the demand for biomedical bags is remaining high.

The information sheet will be published in the [Eco-Innovation website](#). The EACI reserves the right to edit the information sheet for content and length