



## Alternativas de empaque para galletas de mantequilla: evaluación comparativa del ciclo de vida [

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Analítica

In this study a comparison of the environmental impact of different types of packaging for a range of cookie products was performed to assess the optimal sales split and rationalize packaging materials consumption through Life Cycle Methodology (ACV). Environmental impact was assessed for the different packaging components, manufacturing processes, post use conditions and impact on materials transport with the use of a data base published by PRé Consultants B.V., [1] in agreement with ISO 14040 (UNI 1998) in the Ecoindicator 99 software, hierarchical type A version. Results were confronted with 10 year sale statistics, production costs and sales prices providing the business with practical recommendations in terms of the most environmentally efficient packaging systems and materials. Results of the survey show that the use of Polypropylene (PPBO) 1000g. bags and recyclable plastic baskets as outside containers yield the most cost effective alternative with the best environmental impact indices for both the consumer and the business. The main component in the life cycle is the production stage (materials and process), while the impact of waste and transport are negligible, therefore future research should be geared to optimize manufacturing processes and the search for alternate packaging materials with lower environmental impact

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