



# 10<sup>th</sup> INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE”

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## Comparison of Environmental Impacts of Two Forms of Ice Cream Palletising

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### Abstract

Currently, among the resulting environmental impacts of everyday contemporary life, those caused by packaging are one of the most serious and worrying, since these materials are necessary for almost all consumer goods purchased daily. In addition, the growth of consumerism leads to an increase in the quantity of waste generated that negatively impacts the environment. Given the high volume of packaging consumed each day, the present work aims to evaluate and compare the environmental impacts between two different ways of palletizing ice cream pots in a company at São Paulo countryside through the use of Life Cycle Assessment methodology and SimaPro software. It was possible to identify the reduction of the environmental impacts of the current scenario to the scenario with the new palletizing way, mainly due to transportation, which decreased and consequently reduced CO<sub>2</sub> emissions considerably, followed by reduction in consumption of cardboard and, lastly, of plastics.

*Keywords: environmental impacts, packaging, palletizing, cardboard, LCA*