Waste Zero – 3 R

José Faria Moraes\textsuperscript{a}, Nelson Aquino\textsuperscript{b} Renato Ferreira \textsuperscript{c} Tadeu Varella \textsuperscript{d}

\textsuperscript{a}. Rhodia Poliamida Especialidades LTDA, jose.faria@br.rhodia.com
\textsuperscript{b}. Rhodia Poliamida Especialidades LTDA, nelson.aquino@br.rhodia.com
\textsuperscript{c}. Rhodia Poliamida Especialidades LTDA, renato.ferreira@br.rhodia.com
\textsuperscript{d}. Rhodia Poliamida Especialidades LTDA, tadeu.varella@br.rhodia.com

\textbf{Abstract}

This project was initiated in 1989, when all the amount of consumed water from Rhodia was provided by the public system or artesian wells. These artesian wells had a low capacity of supply and the constant raise in the costs of the public water service were important limiting facts to the industrial activities.

A group of work was created to solve this problem. The group aimed three central goals:
- Reduce
- Reuse
- Recycle

The specific goals were:
- Reduce the volume, variability and contamination of effluent
- Use clean technologies
- Improvements in the collection system

The general goal of the project was to find the best possible interaction between profit, investments and environment.

\textit{Keywords:} reuse, recycle, ultrafiltration, waste