

## **PRODUCTION, CHARACTERIZATION AND USE OF BIODIESEL FROM AMAZON SEEDS**

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The Amazon region has many species plants that can become raw material for biofuel production. Among these, the biodiesel produced by these species could become a renewable fuel used by people remote from major centers for electricity generation, transportation of people and agriculture use. This biofuel should be produced by simplified procedures from the seeds of these species, preserving the use of other parts of the fruit for other purposes, such as food and medicine. Thus the social, economic and environmental sustainability of Amazon biodiesel could possibly be achieved. This paper presents aspects of extracting oil from seeds of Tucumán and Murumuru, biodiesel production from transesterification reaction with ethanol, the physico-chemical characterization of extracted oil and its biodiesel and the use of these biodiesel in agricultural machines.

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