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Product Name :

Green Chemistry: Production Of Biodiesel

Product Code :

SLE/CH/143



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Description :

Green Chemistry: Production Of Biodiesel (Product Code: SLE/CH/143) is a classroom kit in which students carry out a two-phase process to produce small batches of crude biodiesel. The fuel they make is of sufficient quality to demonstrate the burning qualities of both biodiesel and vegetable oil, and an optional small-scale washing exercise lets classes go through the full process needed to reach the quality levels required for use in vehicles. Sufficient materials are included for 15 groups, together with a teacher's manual and student copy masters. It suits teachers looking for a chemistry experiment kit in India that connects reaction chemistry with renewable energy, and it is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Groups served	Sufficient materials for 15 groups
Process	Two-phase production of small batches of crude biodiesel
Demonstration	Burning qualities of biodiesel compared with vegetable oil
Optional extension	Small-scale washing procedure for the crude biodiesel
Teaching material	Teacher's manual and student copy masters

Typical Use

The activity gives a concrete example of green chemistry: turning a renewable raw material, vegetable oil, into a usable fuel. In general terms, biodiesel is made by chemically converting the fats in the oil into a thinner, more easily burned liquid, leaving a glycerol by-product behind. Students work through the two phases of the process in their groups, then compare how the crude biodiesel and the original vegetable oil burn, which makes the difference between the two liquids easy to see rather than just read about.

Classes with extra time can add the optional washing exercise, which shows why fuel sold for vehicles needs further purification than the crude product. The kit also works as an environmental science kit for school energy topics, prompting discussion of renewable feedstocks, emissions and the trade-offs of biofuels. Run the practical in a well-ventilated room, have students wear eye protection, and keep the burning comparison under close teacher supervision on a heat-resistant surface.

Supplier

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, a company based in Ambala, Haryana; for vendor registration, its details are CIN U29309HR2020PTC087597 and GSTIN 06AAECJ8618A1ZT. Chemistry activity kits such as this one are supplied from Ambala to schools and colleges in India and international markets. More detail is on our company profile.

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