

AN INSECTICIDE CHEMICAL SPRAY COMPRISED OF ETHANOL AND NEEM TREE (*Azadirachta indica*) LEAVES

Abstract of the Disclosure

5 Disclosed is a utility model for a plant-based insecticide chemical spray
composed of an ethanolic extract of neem tree (*Azadirachta indica*) leaves. The
composition consists essentially of 100 grams neem (*Azadirachta indica*) leaves
and 400 grams ethanol. Neem (*Azadirachta indica*) leaves are dried, pulverized,
and extracted using ethanol to obtain a sprayable insecticide solution. The
10 formulation provides an effective, low-toxicity, and environmentally friendly
alternative to conventional chemical insecticides. The use of ethanol eliminates
the need for hazardous solvents, making the product suitable for household and
small-scale agricultural use. The utility model offers a simple preparation
process while maintaining the insecticidal efficacy of neem
15 (*Azadirachta indica*) - derived bioactive compounds.

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