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(54) **Title:** PROCESS FOR PRODUCTION OF NANOPARTICLES OF SOLID LUBRICANT AND LUBRICANT DISPERSIONS STABLE IN OIL AND IN WATER

(57) **Abstract:** The process basically comprises: dissolving a lamellar disulphide, as a source of the solid lubricant, in an aqueous solvent, forming a first aqueous solution; dissolving a reducing agent, as hydroxylamine, sodium hypophosphite or sodium borohydride, in an aqueous solvent, forming a second aqueous solution; mixing the first and second aqueous solutions, forming a third aqueous solution; neutralizing the pH of the third aqueous solution; dissolving a sulphur source, in an aqueous solvent, forming a fourth aqueous solution; mixing the third and fourth aqueous solutions, forming a fifth aqueous solution, which is contained and heated in an autoclave; cooling the fifth aqueous solution to the room temperature; and removing, from the autoclave, the nanoparticles in powder form.



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