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The invention relates to a process for the preparation of cyclohexyl hydroperoxide by converting
5 cyclohexane into a mixture consisting substantially of 0.5-8 wt.% of cyclohexyl hydroperoxide and 0.1-4 wt.% of cyclohexanol and cyclohexanone in cyclohexane, this being effected using an oxygen-containing gas at a temperature between 130 and 200°C and a pressure between 4 and 50 bar
10 during 0.05 to 14 hours in the absence of catalysts, and optionally subjecting the mixture after the reaction to partial expansion, this process being characterized in that 0.1 to 3 wt.% of oxidic products with linear or cyclic alkyl chains with 1-6 carbon atoms are present in
15 the cyclohexane at the start of the oxidation reaction.

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