7. The process of Claim 1 in which a low molecular weight starter compound with a hydroxyl functionality of from 1.0 to 8.0, DMC catalyst and the mixture comprising ~~(b) (i) and (b) (ii)~~ (b) (ii) (1) and (b) (ii) (2) are metered continuously, and wherein the mixture resulting from step (b) is removed continuously from the reactor or the reactor system at one or more suitable points

8. A polyether polyol produced by the process of Claim 1.

9. A polyether polyol produced by the process of Claim 7.

10. A process for the production of a flexible polyurethane foam comprising reacting a polyisocyanate with the polyether polyol of Claim 8

11. A process for the production of a flexible polyurethane foam comprising reacting a polyisocyanate with the polyether polyol of Claim 9.

12. Flexible polyurethane foam produced by the process of Claim 10

13. A flexible polyurethane foam produced by the process of Claim 11.