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ABSTRACT

A PROCESS TO PRODUCE POLYOLS

5 A process for producing oleochemical polyols comprises the steps of epoxidizing
unsaturated oil using an organic acid together with oxygenated water or a per-acid to
obtain epoxidized oil; washing the epoxidized oil with salt water to remove unused
organic acid together with oxygenated water or a per-acid; neutralizing acidic
condition of the washed epoxidized oil with a base; washing the neutralized
10 epoxidized oil with a salt solution until the pH of the neutralized epoxidized oil
reaching 6.5 to 7.5 to removed the base residue; drying the washed neutralized
epoxidized oil under vacuum; and reacting the washed neutralized dried epoxidized
oil with polyhydric alcohol in the presence of boron trifluoride-diethylether complex
to produce the oleochemical polyols. The oleochemical polyols are then subjected to
15 the same washing, neutralizing, washing and drying process as in preparing the
washed neutralized dried epoxidized oil.

The most illustrative. Fig. 1