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(71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Baytown, TX 77520–5200 (US).

(72) Inventors: HENDRIKSEN, Dan, E.; 3206 Brook Grove Drive, Kingwood, TX 77345 (US). LATTNER, James, R.; 4147 Crownwood, Seabrook, TX 77586 (US). WRISTERS, Jos, P.; 16011 Craighurst, Houston, TX 77059 (US).

(74) Agents: ZBORAY, James, A. et al.; Exxon Chemical Company, P.O. Box 2149, Baytown, TX 77522–2149 (US).

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(54) Title: PROCESS TO ALKYLATE AN AROMATIC WITH A DILUTE STREAM COMPRISING PROPYLENE AND ETHYLENE

(57) Abstract

The present invention provides a method comprising (a) contacting a first reaction mixture comprising an aromatic and a dilute stream comprising ethylene and propylene with a large pore microporous solid acid catalyst, preferably a large pore zeolite catalyst, which is effective to promote alkylation of the aromatic under first conditions effective to maintain a liquid phase comprising the aromatic and effective to cause the propylene to alkylate said aromatic but substantially ineffective to cause the ethylene to alkylate said aromatic, forming propylated aromatic and a second dilute stream comprising ethylene but substantially depleted of propylene, and (b) recovering the propylated aromatic.