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(54) Title: PROCESSES FOR PRODUCING VINYL ACETATE

(57) Abstract: The present invention relates to a process for forming vinyl acetate. The process comprises the step of providing a reaction mixture having an initial heat capacity. The reaction mixture comprises acetic acid, oxygen, ethylene, and optionally water. The process further comprises the step of adding to the reaction mixture at least one heat capacity modifier to form an increased heat capacity reaction mixture. The process further comprises the step of contacting the acetic acid, oxygen, and ethylene over a catalyst under conditions effective to form a crude vinyl acetate product. The crude vinyl acetate product comprises vinyl acetate and water.

