# PROCESS FOR PREPARING CYANOHYDRINS AND THEIR USE IN THE PREPARATION OF ALKYL ESTERS OF METHACRYLIC ACID

**Abstract:**

The invention relates to a process for preparing acetone cyanohydrin, in which a reaction mixture comprising acetone and hydrocyanic acid is reacted in the presence of a catalyst in a loop reactor to form acetone cyanohydrin as the reaction product, the loop reactor having at least one apparatus for cooling the reaction mixture, at least one pump, at least one apparatus for mixing the reaction mixture, and at least one feed orifice each for feeding hydrocyanic acid, acetone and catalyst, the catalyst being fed in downstream of the feed of acetone or hydrocyanic acid or both.