

5550300**GRADIENT CATALYST SYSTEM FOR THE INTEGRATED PRODUCTION OF ISOPROPYL ALCOHOL AND DIISOPROPYL ETHERS**

Taylor Robert J; Dai Pei-Shing E; Knifton John F
Port Arthur, TX, UNITED STATES assigned to
Texaco Chemical Inc

Disclosed is an integrated process for the generation of a mixture of ethers, such as diisopropyl ether, methyl tertiary butyl ether, and/or isopropyl tertiary butyl ether, from a crude by-product acetone stream composed of acetone, tertiary butyl alcohol and methanol by passing such a stream, in the presence of hydrogen, over a catalyst system characterized by having both a hydrogenation activity gradient along the reactor in one direction and an etherification activity gradient in the opposite direction.

5550301**DRIED CATALYTIC SYSTEMS FOR DECOMPOSITION OF ORGANIC HYDROPEROXIDES**

Bhinde Manoj V; Lyons James E; Ellis Paul E
Boothwyn, PA, UNITED STATES assigned to Sun
Company Inc (R&M)

Organic hydroperoxides are decomposed by drying a reaction mixture containing the organic hydroperoxide and an organic solvent such that said dried reaction mixture comprises approximately 1 weight percent or less of water and contacting the dried reaction mixture with a metal organic ligand catalyst under hydroperoxide decomposition conditions. An organic co-solvent for the hydroperoxide may also be used. Particularly effective catalysts are cobalt acetylacetonates and

ruthenium acetylacetonates and combinations thereof.

5550302**METHOD FOR PRODUCING AN ALCOHOL AND CATALYST PRECURSOR USEFUL FOR THE METHOD**

Mori Tomoyuki; Fujita Kouich; Hinoishi Hiroki
Okayama, JAPAN assigned to Mitsubishi Chemical
Corporation

A method for producing an alcohol, which comprises reacting an aldehyde with hydrogen in a gas phase in the presence of a hydrogenation catalyst to form a corresponding saturated alcohol, wherein a reduced product of a catalyst precursor composition comprising components represented by the following formula (I):(*See Patent for Tabular Presentation*) PS wherein X is a transition metal of Group 8 or 4A of the Periodic Table, and a to f represent the contents of the respective components as converted to their oxides and have the following values: a: 20 to 50 wt % b: 0 to 50 wt % c: 0 to 50 wt % d: 0.1 to 5.0 wt % e: 0.1 to 5.0 wt % f: 0.01 to 3.0 wt % is used as the hydrogenation catalyst.

5554785**ORGANOTIN CATALYZED TRANSESTERIFICATION PRODUCTS**

Trapasso Louise E; Padegimas Stanley J; Epstein Peter; Hung Paul L; Mukhopadhyay Purnendu; Meisel Philip L West Long Branch, NJ, UNITED STATES assigned to CPS Chemical Company Inc

Esters of acrylic and methacrylic acid with alcohols and polyols having levels of purity greater than about 95% as measured by gas chromatography using an 11 meter RT*200 trifluoropropylmethyl