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CATALYTIC VAPOR PHASE OXIDATION OF ISOBUTYLENE

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No Drawing. 11 Pages of Specification

Isobutylene is oxidized to methacrolein in the vapor phase with molecular oxygen at temperatures in the range of from 970° F. to 1150° F. in the presence of a bismuth molybdate or bismuth phosphomolybdate catalyst in particulate form admixed with masses of a metal or metal alloy having a melting point ranging from above the reaction temperature employed up to about 250° F. above the reaction temperature to aid in the dissipation of the exothermic heat of reaction and thereby improve the selectivity of the reaction for the production of methacrolein.