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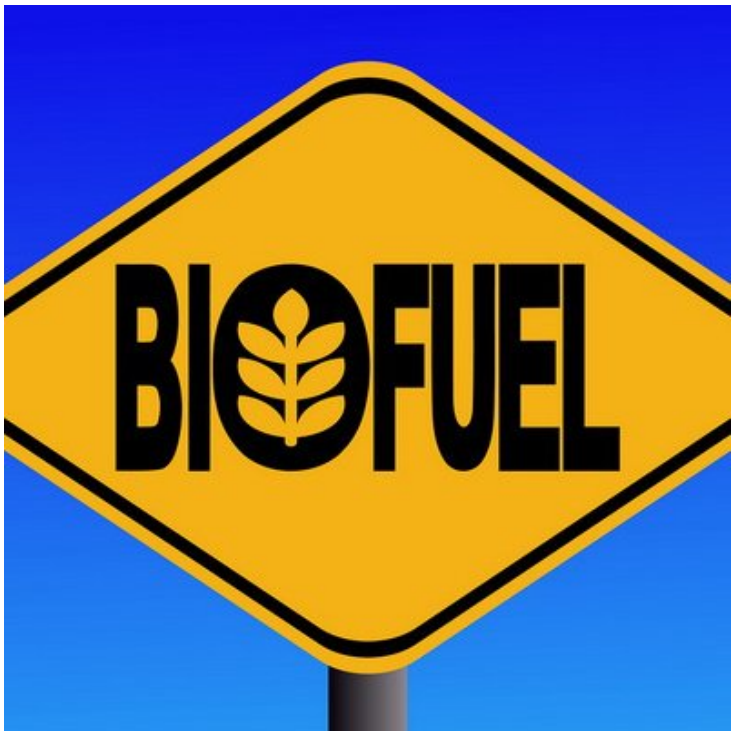

Singapore: World-leading nylon producer, INVISTA, and biotechnology firm, LanzaTech signed a joint development agreement focused on bio-based butadiene. According to the agreement, INVISTA and LanzaTech will collaborate on projects to develop one-step and two-step technologies to convert industrial waste gas carbon monoxide into butadiene. Initial commercialization is expected in 2016.

The collaboration will initially focus on the production of butadiene in a two-step process from LanzaTech CO-derived 2,3-butanediol (2,3 BDO). A direct single step process will also be developed to produce butadiene directly through a process of gas fermentation.

INVISTA and LanzaTech will also collaborate on the joint development of tools that will allow the extension of this technology-once developed-for the direct production of other industrial chemicals, including nylon intermediates, from carbon monoxide containing waste gases, utilizing LanzaTech's gas fermentation technology and proprietary biochemical platform. INVISTA is building internal biotechnical capability to develop biological routes to its products and feedstocks.

Mr Bill Greenfield, executive VP, nylon intermediates business, INVISTA, said that, "As we seek innovative solutions to increase the global supply of butadiene, we believe developing a cost competitive biological route to butadiene will help assure ample supply and reduce price volatility. We believe this collaboration effort is a great opportunity to leverage our own internal biotechnical research with the unique and impressive capabilities that LanzaTech has developed."

According to Mr Jennifer Holmgren, CEO, LanzaTech, "This collaboration is an important next step toward our vision of a diversified fuels and chemical portfolio. Joining forces with INVISTA's world-class research team will enable us to accelerate the commercialization of a biological route to butadiene, further demonstrating that gas fermentation is an important route for the production of both fuels and chemicals."