



MITSUBISHI GAS CHEMICAL COMPANY, INC.

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MGC Successfully Develops Solica, A Powdered Catalase That Offers Superior Stability When Mixed With Sodium Percarbonate

Mitsubishi Gas Chemical Company, Inc. (hereafter referred to as MGC ; Head Office: Chiyoda-ku, Tokyo, Japan; President: Hideki Odaka) has successfully developed Solica, a powdered catalase that offers superior stability when mixed with sodium percarbonate. It will be sold together with MGC's own sodium percarbonate.

Sodium percarbonate is an oxygen bleaching agent created by adding hydrogen peroxide to sodium carbonate. A white alkaline granule that is stable at room temperature, it is widely used as a bleaching agent for laundry and dry-cleaning and as an ingredient in synthetic detergents. Sodium percarbonate is also incorporated in various formulas used for cleaning bathtubs, kitchen drains, tableware, sneakers, etc.

MGC's previously developed ASC Super, an ingredient in Solica, is a high-performance hydrogen peroxide resolving enzyme catalase used in fabric dyeing, wastewater treatment in semiconductor production and the decomposition of peracetic acid.

Adding ASC Super to sodium percarbonate rapidly yields oxygen and a byproduct foam known to have cleansing properties. Formerly, however, when catalase powder was mixed with sodium percarbonate, catalytic activity usually diminished in a short time because of the alkalinity and oxidative power of the sodium percarbonate. The sodium percarbonate and catalase powder, consequently, could not be stored together, and had to be sold in two separate containers.

However, when Solica is used with MGC's unique coating technology to transform ASC Super into a powder, the stability when mixed with sodium percarbonate is improved so dramatically that the mixture retains its stability for over six months at room temperature.



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In addition to its stability when mixed with sodium percarbonate, Solica offers the following benefits:

- High resistance to hydrogen peroxide, ensuring long-term retention of catalytic action
- Can be used within a wide range of pH values (pH 3-10)
- Can be used within a wide range of temperatures (1-70°C)

MGC is aggressively promoting the sale of Solica, which combines with sodium percarbonate for use in an increasing number of applications, and compliments MGC's liquid ASC Super.

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