



MULTI-PURPOSE ANTISEPTIC

SIBUR's partner Kapitel Irkutsk plant has launched production of a safe and effective antiseptic.

Kapitel Irkutsk has promptly repurposed part of its production capacities to produce antiseptic solutions. Before that, the plant specialised in paint & coating products and dispersions. Over the past seven years, SIBUR has been a reliable supplier of monomers for the company.

THE SOLUTION ACTS BY TRIGGERING NON-SELECTIVE OXIDATION THAT BASICALLY SERVES TO SOFTLY "INCINERATE" ORGANIC COMPOUNDS, WHICH ALSO INCLUDE VIRUSES

A pre-lockdown market research in Irkutsk showed a lack of affordable sanitisers for disinfecting a wide range of surfaces, with stores selling only chlorine-containing solutions that, if used incorrectly, could harm people's health or damage certain surfaces. A decision was made for the Kapitel Irkutsk plant to start producing active oxygen solutions, which were deemed highly effective, safe and affordable. These solutions are suitable for disinfecting any household surfaces, including floors, walls, doors, etc.

The active oxygen solution kills viruses and bacteria. It acts by triggering non-selective oxidation of organic molecules with active oxygen that is emitted after a surface has been treated. Non-selective oxidation basically serves to softly "incinerate" organic compounds, which also include viruses. The solution is safe for humans and animals and free from chlorine and alcohol. The Kapitel antiseptic breaks down into oxygen.

"The plant's lab has already had experience of creating and stabilising systems for controlled synthesis of active oxygen," said Petr Kraykivsky, CEO of Kapitel Irkutsk. "Because of that, the plant did not require much time for converting its capacities to produce an affordable and universal antiseptic, with the first batch being ready on 4 April 2020."

Kapitel Irkutsk's lab has already developed a formula of an alcohol-free hand sanitiser. The plant's employees came up with the idea after using alcohol-based antiseptics and observing negative effects on their hand skin (peeling or cracking). Alcohol-based solutions are known to cause skin dryness, so frequent usage is not recommended. The active ingredient in the new formula is a tertiary amine combined with the quaternary salt of amino acid ester. Commercial production is slated to start following the issuance of the respective certificates. Currently, the plant's capacity amounts to 40 t of the multi-purpose antiseptic per day.

