NewsRelease



Nippon Shokubai Acquired ISCC PLUS Certification for Various Products, Including Acrylic Acid, Superabsorbent Polymers, and Ethylene Oxide

-To promote the use of biomass as raw materials for disposable diapers, detergents, and other products-

NIPPON SHOKUBAI CO., LTD. (Headquarters: Osaka, Japan, President: Kazuhiro Noda, hereinafter "Nippon Shokubai") has acquired ISCC PLUS certification*1 for 19 products including acrylic acid, superabsorbent polymers (hereinafter "SAP") and ethylene oxide produced at its Himeji Plant and Kawasaki Plant.

The certification enables us to establish a system to manufacture and market certified products using biomass-derived raw materials allocated by the mass balance method*2 and to offer a wide range of products with low environmental impact.

The Nippon Shokubai Group has developed a global supply system for SAP (water-absorbent material for disposable diapers) and acrylic acid (a raw material for SAP), and has the largest production capacity in Japan for ethylene oxide (a raw material for polyester fiber and detergents). As a responsible supplier of these products, in addition to the above initiatives, Nippon Shokubai is also engaged in the development of a new acrylic acid manufacturing process using 100% biomass derived from natural products and joint study with other companies for manufacturing and marketing ethylene oxide derivatives using biomass raw materials.

Aiming to achieve carbon neutrality by 2050, the Nippon Shokubai Group will implement the transformation outlined in the Group's long-term vision and mid-term management plan and contribute to increasing customer value and realizing a sustainable society.

*The Nippon Shokubai Group commits and declares its compliance with the ISCC PLUS requirements in accordance with the latest ISCC regulations.

Product Name Production **Main Applications** Locations Acrylic Acid Himeji Acrylic esters, Superabsorbent polymer, Fiber modifier, Flocculant Superabsorbent Polymers (AQUALIC[™] CA) Himeji Disposable diapers, Sanitary pads, Pet sheets Acrylic Esters Methyl Acrylate Himeji Raw material for adhesives and **Butyl Acrylate** paint, For use in molding resin 2-Ethylhexyl Acrylate copolymerization, Acrylic fibers, 2-Octyl Acrylate (In development) Acrylic rubber Acrylic Acid 2-Hydroxypropyl acrylate Himeji Paints and coatings, Adhesives and Special Esters pressure-sensitive adhesives, Printing ink, Photosensitive resins 2-Hydroxyethyl acrylate Kawasaki Paints, Adhesives and pressure sensitive adhesives, Fiber treatment, Improving agent for copolymers, Photosensitive resin Methacrylic Acid 2-Hydroxyethyl Methacrylate Himeji Paints and coatings, Adhesives and **Special Esters** pressure-sensitive adhesives, Printing ink, Photosensitive resins Ethylene Oxide Kawasaki Ethylene glycol, Ethanolamine, Raw material for organic synthesis such as alcohol ethoxylates, Surfactants Ethylene Glycol (Mono)Ethylene Glycol Kawasaki PET resins, Polyester fibers, Diethylene Glycol Antifreeze, Unsaturated polyester, Triethylene Glycol Polyurethane, Softeners for cellophane, Synthetic resins Ethanolamine Monoethanolamine Kawasaki Synthetic detergents, Gas absorbents, Diethanolamine Metal corrosion inhibitors, Triethanolamine Detergents for electronic materials, Waxes Secondary Alcohol Ethoxylates (SOFTANOLTM) Kawasaki Surfactant, detergents for household, shampoo, various industrial detergents, scouring agent Polycarboxylates (AQUALIC[™] L) Himeji, Raw material for detergents Kawasaki Polyethyleneimine Ethoxylate Kawasaki Raw material for detergents, Papermaking agents (deinking, pitch control), Pigment dispersant, Water treatment agents (scale inhibitor), Abrasive grains dispersant, Plating additives

♦Nippon Shokubai's ISCC PLUS certified products

 \bullet Related releases in the past

(Acquisition of ISCC PLUS certification by NIPPON SHOKUBAI EUROPE N.V., a subsidiary in Belgium)

July 8, 2021: <u>https://www.shokubai.co.jp/en/news/202107087200/</u> March 4, 2022: <u>https://www.shokubai.co.jp/en/news/202203047412/</u>

*1) ISCC (International Sustainability and Carbon Certification): A globally applicable certification system that covers sustainability and carbon. ISCC PLUS certification is a certification system that manages and guarantees biomass and renewable materials and products manufactured and marketed worldwide, throughout the supply chain.

*2) Mass balance method: When biomass-derived raw materials and petroleum-derived raw materials are mixed, the ratio of the biomass-derived raw materials used is assigned as the biomass ratio of the specific end product. The method has been authorized by the ISCC PLUS system.

About NIPPON SHOKUBAI CO., LTD.: Since 1941, Nippon Shokubai has grown up its business with unique catalyst technology. Nippon Shokubai has supplied, for example, ethylene oxide, acrylic acid, automobile catalysts, process catalysts and so on. Among all, our global market share of superabsorbent polymers is the largest in the world now (according to Nippon Shokubai research). Nippon Shokubai is a global chemical company operating under its corporate mission "TechnoAmenity-Providing affluence and comfort to people and society with our unique technology."

https://www.shokubai.co.jp/en/

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