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Press release

May 20, 2009

Merck presents new materials for displays, lighting and photovoltaics at SID Display Week in San Antonio

Darmstadt, Germany – May 20, 2009 – Merck KGaA announced today that it will be presenting the latest materials for displays, lighting and photovoltaics during the SID Display Week from May 31 to June 5, 2009 in San Antonio, Texas.

Merck will be showcasing the many advantages of its unique PS-VA materials for liquid crystal displays at Display Week, one of the leading events in the electronic display industry. The novel LCD technology offers greater contrast, increases switching times and reduces power consumption. PS-VA stands for Polymer Stabilized Vertical Alignment. PS-VA is closely related to VA, the leading LCD television technology besides IPS (in plane switching). Yet when PS-VA materials from Merck are used in LCD televisions, colors appear fuller, warmer, and more natural. In addition, the spatial depth of the display is greater and movements are more lively. An international team of Merck experts will be presenting innovative licristal[®] liquid crystal materials for all display types (e.g. VA, IPS, TN-TFT). Whether for LCD television, computer displays and notebooks, cell phones, digital cameras, navigation or measurement devices, licristal[®] products are used worldwide in high-quality displays.

The livilux[®] brand now includes a full new range of transport materials for small molecule-based OLEDs. The new set of electron and hole transport materials enable display and lighting customers to significantly lower the voltage and increase the overall efficiency of OLED devices. These new materials are especially suited for mass

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production where thicker layers of materials are necessary for robust processes or in outcoupling optimized stacks.

With the isiphor™ brand, Merck is gaining recognition as a reliable partner to the lighting industry. isiphor™ offers a broad range of efficient lighting materials (phosphors) for use in resource-saving LEDs (light-emitting diodes). They make it possible to realize a wide variety of color-on-demand concepts ranging from warm to cold white light.

SID attendees can also find out what makes the isishape® product group so convincing. These printable etching pastes from Merck can be used to selectively etch transparent, conductive as well as silicon, silicon dioxide and silicon nitride layers. With isishape SolarResist™, Merck is offering the first ink-jet compatible solution for direct printing of a silicon dioxide diffusion barrier. The unique isishape® concept offers highly efficient and environmentally friendly materials for smart and simple structuring in the display and photovoltaic industries.

The lisicon® brand stands for printable organic electronic material or novel polymers that make innovative applications such as flexible displays, organic solar cells and organic RFID chips possible.

The **SID International Symposium, Seminar and Exhibition** is one of the most important industry gatherings for scientists, engineers, manufacturers and users in the electronic display industry. Now in its 47th year, the event is expected to attract more than 350 exhibitors and 6,000 industry visitors to San Antonio.

During the six-day conference in the Henry B. Gonzalez Convention Center, Merck staff will be holding two presentations in the Exhibitor Forum. Dr. Roman Maisch, Senior Vice President Marketing & Sales, Liquid Crystals, will discuss “EMD Chemicals Offer for the Display Industry” on Wednesday, June 3 from 9:15 to 9:30 (Bridge Hall). Dr. Werner Becker, Senior Director Technology and Head of Global Regulatory Affairs, will hold a presentation from 10:15 to 10:30 a.m. entitled: “Merck – Your Partner for



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Green and Legally Compliant Products". Visitors will find the Merck stand in Halls C-D 535.

All press releases of Merck KGaA are distributed by e-mail at the same time they become available on the Merck website. Please go to <http://www.newsabo.merck.de> to register online, change your selection or discontinue this service.

Merck is a global pharmaceutical and chemical company with total revenues of € 7.6 billion in 2008, a history that began in 1668, and a future shaped by 32,700 employees in 60 countries. Its success is characterized by innovations from entrepreneurial employees. Merck's operating activities come under the umbrella of Merck KGaA, in which the Merck family holds an approximately 70% interest and free shareholders own the remaining approximately 30%. In 1917 the U.S. subsidiary Merck & Co. was expropriated and has been an independent company ever since.