



SiGNa Chemistry's New mobile-H2™ - Ideal for Brands Looking to Develop Lightweight, Safe Hydrogen Solutions to Power Mobile Electronics

PowerTrek by myFC is first portable electronics charger for outdoor enthusiasts and innovators for emerging markets

New York, NY ([PRWEB](#)) February 14, 2011 -- [SiGNa Chemistry](#) today announced that its proprietary mobile-H2™ cartridges which will deliver clean H2 gas instantly for myFC's PowerTrek, a wireless rechargeable power source for portable electronics, on demonstration at [Mobile World Congress](#) in Barcelona this week. SiGNa's mobile-H2™ cartridge contains safe sodium silicide (NaSi); a powder that produces hydrogen (H2) on-demand from its reaction with any type of water, including salt water, packaged in a cartridge for use with fuel cells rated from 1 W to 3 kW.

PowerTrek, available from Stockholm-based myFC, is the first brand to use SiGNa's mobile-H2™ to offer a fuel cell-driven power source for mobile phones and other electronic equipment. SiGNa Chemistry specializes in designing custom hydrogen solutions for the fuel cell industry and developed the PowerTrek Fuel Cartridge specifically for myFC.

“At SiGNa, we can customize our H2 solutions to meet any portable power needs ... unlike other portable chargers, PowerTrek with SiGNa's mobile-H2™ provides instant and reliable power anywhere, making it ideal for outdoor enthusiasts, road warriors, and business users in emerging markets,” said Michael Lefenfeld, CEO of SiGNa Chemistry. “SiGNa has created an inherently-safe solution to produce electric power, resulting in an eco-friendly and cost-effective portable solution.”

SiGNa Chemistry's mobile-H2™ cartridges can be used to power anything from smart phones, to GPS units, to MP3 Players. Also, the mobile-H2™ cartridges can be used to help ignite LED lighting, maintain important sensors and power surveillance and other camera electronics.

H2 Generation, Low-Cost, On-Demand

Mobile-H2™ cartridges meet fuel cell requirements for load management with rapid startup and shutdown capabilities. Electronics can obtain consistent power output over the entire runtime with zero power degradation, as seen in batteries. The mobile-H2™ cartridges are configurable and can be set to operate at a range of pressures from one to 15 psi with a +/- 0.5 psi variability over its lifetime. Cartridges can also be easily exchanged to extend runtime without interrupting power.

Sodium silicide is a non-flammable, air-stable powder and reacts even with non-potable, non-distilled waters at room temperature to form H2 in a rapid, stable, and controllable reaction.

Safe, No Emissions Manufacturing Process

SiGNa's sodium silicide (NaSi) is produced with zero waste. All raw materials are generated from renewable starting materials, sodium from sodium chloride (salt) and silicon powder from silicon dioxide (sand).



The yield in the manufacturing process of NaSi is 100% and there is no waste generated. No use of solvents, no purification steps and even there is no raw material consumption in the manufacturing process. The process is exothermic, meaning it releases energy in the form of heat, which is then recaptured and used within the process, making the energy consumed minimal.

SiGNa focuses on the low-carbon footprint of all of its products, reviewing each step all the way back to its starting materials formation.

For more information about using SiGNa Chemistry's portable power system, please e-mail [sales\(at\)signachem\(dot\)com](mailto:sales(at)signachem(dot)com).

About SiGNa Chemistry

SiGNa Chemistry, Inc., a green chemical technology company, has developed a nanotechnology-based solution that makes reactive metals far more efficient, safe, and cost effective. These products are fundamental components used for general synthesis in the pharmaceutical, petrochemical, specialty chemical and environmental remediation industries and provide the ability to enable portable fuel cells by safely producing pure, low pressure hydrogen gas on demand. SiGNa's products have overcome safety and cost efficiency issues and represents the most substantial scientific breakthrough in reactive metals in over 100 years. For more information, visit <http://www.signachem.com>.

###



Contact Information

Liz Grimes

Portfolio PR Group

<http://www.portfolioprgroup.com>

518.306.4029

Online Web 2.0 Version

You can read the online version of this press release [here](#).