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# Honeywell Solstice® Refrigerants Approved For Use By U.S Environmental Protection Agency

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*New Solstice®N40 Approved to Aid Conversion of Nearly 30,000 U.S. Supermarkets Ahead of 2016 U.S. EPA Regulations*

MORRIS TOWNSHIP, N.J., July 14, 2015 — Honeywell (**NYSE: HON**) announced today that its **Solstice® N40 (R-448A)** refrigerant has been approved for use by the U.S. Environmental Protection Agency (EPA) in applications ranging from stand-alone refrigeration systems to commercial refrigeration.

The EPA also broadened approvals for the company's **Solstice N13 (R-450A)** refrigerant, allowing it to be used in retrofit vending machine applications.

The EPA approved the new refrigerant uses under its Significant New Alternatives Policy (SNAP), which evaluates substitute chemicals and technologies that are safe for the ozone layer. The final rule will be published in the Federal Register in the coming weeks.

"Honeywell has been steadily broadening its range of reduced and low-global-warming replacements for high-global-warming hydrofluorocarbons (HFCs) and hydrochlorofluorocarbons (HCFCs), helping customers around the world decrease their global warming footprint and comply with new regulation," said George Koutsaftes, refrigerants business director for Honeywell Fluorine Products. "Solstice N40, Solstice N13 and the entire range of Solstice stationary and mobile refrigerants help customers achieve their environmental goals without sacrificing performance."

Global regulators are increasingly moving to phase out high-global warming refrigerants and, on July 2, the EPA announced landmark regulations that will phase out the use of many of the world's most potent HFCs, such as R-404A, in a variety of applications. The new regulation effective summer 2016 will require supermarkets, the largest consumers of R-404A in the U.S., to discontinue use of R-404A as a retrofit refrigerant. R-404A will also not be permitted for use in new supermarkets beginning January 1, 2017.

The EPA had previously given SNAP approval for Honeywell's Solstice yf, also known as R-1234yf, a low-global-warming replacement for R-134a, which is commonly used for automotive air conditioning. It has also approved Solstice zd (R-1234zd) and Solstice ze (R-1234ze), which can be used in industrial chillers and a wide range of other end uses.

The latest approvals allow Solstice N40 refrigerant to replace R-22 and R-404A in commercial refrigeration applications, including new and retrofit supermarkets, various types of commercial refrigeration equipment, ice machines and refrigerated transportation.

Solstice N40 has a global warming potential (GWP) that is 66 percent lower than R-404A. In supermarket trials conducted in the U.S. and Europe, Solstice N40 demonstrated at least 3 percent lower energy consumption in low-temperature applications and 5 to 16 percent lower energy consumption in medium-temperature refrigeration compared with R-404A. In R-22 retrofit scenarios, Solstice N40 has delivered

similar system performance. Whether replacing R-22 or R-404A, Solstice N40 is a near drop-in replacement for supermarkets.

Solstice N13 has a GWP that is 60 percent lower than R-134a and is approved for use in vending machine applications.

Solstice N40 (R-448A) and Solstice N13 (R-450A) are nonflammable (ASHRAE A1) and non-ozone-depleting.

Solstice products have been developed and are being commercialized by Honeywell's Fluorine Products business, a leader in the manufacture and supply of non-ozone-depleting refrigerants used by top air-conditioning and refrigeration makers worldwide, and blowing agents for energy-efficient foam insulation, as well as hydrofluoric acid and precursors for nuclear fuel.

Honeywell Performance Materials and Technologies (PMT) is a global leader in developing advanced materials, process technologies and automation solutions. PMT's Advanced Materials businesses manufacture a wide variety of high-performance products, including environmentally friendlier refrigerants and materials used to manufacture end products such as bullet-resistant armor, nylon, computer chips and pharmaceutical packaging. Process technologies developed by PMT's UOP business ([www.uop.com](http://www.uop.com)) form the foundation for most of the world's refiners, efficiently producing gasoline, diesel, jet fuel, petrochemicals and renewable fuels. PMT's Process Solutions business ([www.honeywellprocess.com](http://www.honeywellprocess.com)) is a pioneer in automation control, instrumentation and services for the oil and gas, refining, pulp and paper, industrial power generation, chemicals and petrochemicals, biofuels, life sciences, and metals, minerals and mining industries.

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