



FOR IMMEDIATE RELEASE

***AiroCide*[®] PPT Air Purification System eradicates microbial airborne contaminants for cork manufacturer**

(Atlanta, GA) April 19, 2007 -Ebrocork, a leading manufacturer of cork products for use in the European wine industry recently conducted a two-part test in its Navarra, Spain facility using the NASA-developed *AiroCide PPT* system. The technology kills airborne microbes as well as removes volatile organic compounds like trichloroanisoles. The 48-hour test resulted in mold reduction by 87% and bacteria reduced by 97%. The second part of the test confirmed the indicator mold specific to cork was completely eradicated after sampling every 21 days.

Ebrocork's quest to improve prevention measures to eliminate the risks of airborne threats caused them to examine the photocatalytic *AiroCide PPT* technology. The company found the *AiroCide* technology "the most uncomplicated system to eliminate airborne microbes along with volatile organic compounds, therefore providing us with one single device to address the two big potential risks in the industry. Our customers tell us there has been almost a 100% reduction of TCA in our products since implementation of the technology," according to Ebrocork President, Don Jose Lorente Prat.

In the first phase of the trial, a location was chosen to test under the worst storage conditions possible. The storage room was packed with untreated cork, with a higher presence of microbes than in finished cork, in open weave nets with a minimum humidity level of 6.5%, a temperature of 15 °C and the relative humidity of 70%. Air sampling began with a baseline sample and another sample after 48 hours of *AiroCide PPT* operation. Results showed a 97% reduction in bacteria with an 87% reduction in mold.

Based on these results, the second phase involving the entire facility was implemented covering approximately 212,000 cubic feet and using a larger *AiroCide* system. Air samples were taken at seven sampling points every 21 days. A panel screening for some of the mold species commonly found in cork storage were completely eradicated with no CFU found on the plates. Don Prat called these results, "spectacular, and a great indicator of the efficient performance of the *AiroCide PPT* technology."

Vulnerability to environmental contamination dictates controlled temperature and relative humidity conditions be observed anywhere cork is stored. Even the total humidity of the cork must be stabilized between 5.5% and 6% to prevent microbial growth. Cork, an inert material is almost non-biodegradable and has the capacity to absorb dangerous VOC's like 2,4,6-trichloroanisole (TCA). The *AiroCide PPT* technology has been previously tested in a laboratory using a small bench top model where a 21% reduction in TCA was achieved on the first pass.

AiroCide PPT, a patented NASA technology, combines two known pathogen-killing techniques, photocatalytic oxidation (PCO) and ultraviolet light to break the bonds of volatile organic gases (VOC's) like TCA and mineralize airborne microbes without using chemicals or ozone. When these materials are exposed to ultraviolet light, hydroxyl radicals and super-oxide ions are formed. The radicals oxidize VOC's to reduce them to trace elements of carbon dioxide and water, and penetrate the cell membranes of both bacteria and mold spores to kill and decompose these organisms. More information and case studies can be found at www.airocide.com.

The *AiroCide PPT* product is "plug and play" and is used in wineries all over the world to protect barrel storage, caves and production areas. In addition to wine, the chemical-free technology is used in a variety of floral and perishable foods distribution and processing operations to increase their ability to offer a superior product with a clean, environmentally and maintenance friendly technology.

AiroCide PPT Air Purifying Systems contain the same technology that is used in all *AiroCide* products that serve multiple industries and applications and is marketed by KES' affiliate company, KesAir Technologies also of Atlanta. The *AiroCide* technology is an FDA Class II Medical Device.

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