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## PRESS RELEASE

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# HDP User Group International Announces the Halogen Free Properties Project for Electronics Products

*Scottsdale Arizona March 15, 2007.* The High Density Packaging User Group International, Inc. (HDP), a global non-profit cooperative research and development organization for the Telecommunications and Computer industries, announced the initiation of a project to create a distributed database containing information on the properties and availability of halogen-free electronic components and materials.

Flame-retarded plastics are commonly needed to meet strict fire safety codes for electronic equipment. Certain halogenated compounds (of which brominated flame retardants, or BFRs, are a subset) are used as flame retardants in a variety of applications including thermoplastics, insulation materials, component mold compounds, solder masks and printed circuit board laminates. In addition, polyvinyl chloride or PVC (a resin that contains chlorine, a halogen) is a commonly used base resin for certain cable jacketing. However, concerns have arisen that these materials may pose certain risks to health or the environment particularly at end-of-life. At this time, several governments are considering regulation to prohibit or restrict the use of these types of substances in electronic (and other) products. Within the marketplace, environmentally-preferable purchasing standards (such as TCO, Blue Angel, Nordic Swan, etc) also include restrictions on the use of these substances in certain products. In order for the electronics industry to continue its long-standing commitment to product stewardship, companies throughout the supply chain will need to understand which "halogen-free" alternatives are available, as well as the electrical, mechanical and environmental, health and safety properties of these alternatives.

Since 2001, the HDP User Group has been at the forefront of evaluating halogen-free materials within the electronics industry. In 2007, HDP User Group initiated the Halogen-free Properties Project aimed at assembling a comprehensive Halogen-Free Guideline and Halogen-free Materials Database. The Halogen-free Materials Database will serve as a centralized database allowing suppliers to list their halogen-free product offerings and the properties of those offerings in a uniform, concise format that is easily accessible to product designers. Increased access to this information will enhance supply chain adoption of halogen-free components. Dell Inc. is leading this new project with project participants including major companies such as HP, IBM, Sun, Fujitsu-Siemens, NEC, Hitachi, AMD, NanYa, Supresta, Albemarle, Alcatel-Lucent, Aspocomp, Celestica, Clariant, Coretec, EIT, General Electric, Isola Group, ITRI, Kaneka Texas Corp., Multek, Park Nelco, as well as the US EPA.

The participants of this project are currently soliciting involvement by interested companies throughout the industry. Direction and guidance from as large a cross section of the industry as possible will help make the database successful and enhance adoption of these new alternative materials.

For more information on this project, please see the Halogen-Free Properties Project homepage at <http://www.hdpug.org>. If you are interested in joining this project, please contact: Jack Fisher, HDP User Group [fish5er@mindspring.com](mailto:fish5er@mindspring.com), phone number +1 512-930-5666, or Scott O'Connell, Dell, Project Leader [Scott\\_OConnell@Dell.com](mailto:Scott_OConnell@Dell.com), phone +1 512-723-2512.

**About the HDP User Group International Inc.**

HDP User Group ([www.hdpug.org](http://www.hdpug.org)) is a global research and development organization based in Scottsdale AZ, dedicated to “reducing the costs and risks for the Telecommunications and Computer industries when using advanced electronic packaging and assembly”. This international industry led group organizes and conducts R&D programs to address the technical issues facing the industry, including design, printed circuit board manufacturing, electronics assembly, and environmental compliance. HDP maintains additional offices in Austin, Texas; Stockholm, Sweden; and Tokyo, Japan.

For more information, visit HDP User Group on the Internet at [www.hdpug.org](http://www.hdpug.org) or contact Darryl Reiner at [darrylr@hdpug.org](mailto:darrylr@hdpug.org), phone number +1 480-951-1963.

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If you would like more information on this topic, or to schedule an interview with Jack Fisher, please call Darryl Reiner 480/951-1963 or email [fish5er@mindspring.com](mailto:fish5er@mindspring.com).