Environment, Health and Safety Facts about Xerox Dry Ink Toner

- Xerox dry ink toner is non-toxic and does not generate hazardous waste (based on U.S. Federal regulations). This is the result of careful selection of materials and control of the raw material ingredients.

- Chemical and dust emissions from Xerox machines are carefully controlled to very low levels that are well below regulatory requirements. Production equipment such as the Xerox iGenTM Digital Production Press meet the same strict Xerox emissions limits as products designed for general office use.

- Prints made with the Xerox dry ink toners are readily recyclable using standard de-inking processes.

- Unlike some liquid ink technologies used in the industry today, with Xerox dry toners there is no use of petroleum distillates. Petroleum distillates are combustible, produce oil waste that needs to be carefully managed, and potentially contribute to volatile organic compound (VOC) emissions in the work environment.

- Sometimes customers wonder how our toners compare to vegetable based inks such as "soy inks". The use of soy-based inks is desirable in traditional offset printing because, by substituting the soy oil for part of the petroleum oil, volatile organic emissions are reduced. In contrast, the Xerox production presses such as iGen use dry toners, not liquid inks. Toners are fine powders composed of plastics, colorants and small quantities of functional additives. Since Xerox toners are safe and non-toxic and because Xerox products are designed to adhere to strict emission standards, emissions of volatile organic compounds during printing should not be a concern (as it might be in offset printing and some digital liquid ink technologies).

- As for empty toner bottles and cartridges, Xerox provides a mechanism for customers to return the bottles for recycling via our Green World Alliance – see www.xerox.com/gwa

- Xerox has also been recycling waste toner material for many years in two ways:
  - As part of the manufacturing process, conventional toner that doesn't meet the size specifications is recycled back into the toner making process.
  - Each year, over 1 million lbs of post consumer waste toner is returned to Xerox from selected products, where it is "recycled" back into the manufacturing process and is reused.

- Xerox's advanced toner and solid inks further reduce the environmental impacts of printing:
  - Emulsion Aggregation toner found in many of our newer products are energy efficient in their manufacturing and during use, reducing the energy investment per page compared to conventional toner. This is achieved because, compared to conventional toner, more prints can be made per pound of EA toner.
  - Solid ink products are cartridge-free and produce up to 90 % less waste than comparable laser products

For more information about Xerox's environmental programs, visit www.xerox.com/environment

Xerox Environment, Health, Safety and Sustainability
www.xerox.com/environment
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