

Rhode Island Department of Environmental Management 2023 Printing Survey

Facility Name

Date

Name of Person Completing Survey

Signature

Please complete the following survey. Definitions and more Directions are on back.

Type of Printing:

Rotogravure

Flexographic

Lithographic (Offset? Y N)

Letterpress

Digital

Other: _____

Type of Substrate (check all that apply):

Paper

Plastic

Flexible Packaging

Book printing

Other: _____

If you checked offset lithographic or letterpress, what type is it?

Sheet-fed

Web-based

Other: _____

Is the ink heatset? Y N

Please fill in the Table below with information on your facility's Inks, Fountain Solutions, and Cleaning Solvents, and attach the SDS for each.

| Name of Product | Ink, Fountain solution, or Cleaning solvent? (include shop towels) | Total Amount Purchased in 2023 (gallons) | Total Amount Remaining in 2023 (gallons) | SDS Sheet Attached (Y/N) |
|-----------------|--|--|--|--------------------------|
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Return Survey to: DEM.AirInventory@dem.ri.gov
Air Toxics Division, Office of Air Resources 235 Promenade
Street, Providence, RI 02908-5767

Rhode Island Department of Environmental Management

2023 Printing Survey

Information supplied on this form should be for calendar year 2023. You may find it helpful to contact your supplier/vendor to obtain all the required information. Most will supply you with a list of all purchases for 2023 along with a copy of each product's SDS. The information received from your supplier/vendor may be submitted in lieu of filling out the Table only if the name of product and the amount used are clearly identified with attached SDS. Please report only inks that you have purchased more than one gallon of in 2023. If you did not use all the product purchased and you know the amount remaining, please report that amount in the amount remaining box. If that amount is unknown, it may be left blank. If shop towels containing cleaning solvents are used to clean surfaces, include the product in the Table with the notation that they are shop towels.

Definitions

Flexographic printing: a roll-printing process that uses a rubber/elastomeric print carrier to apply the pattern/image to a substrate on a printing roll underneath.

Letterpress printing (or relief printing): a printing process in which the image area is raised relative to the non-image area and the inked image is applied directly to the substrate from the image plate.

Lithographic printing: a printing process where the image and non-image areas are chemically differentiated. **Offset lithographic printing** is when the ink film is transferred from the lithographic plate to an intermediary surface (usually a rubber roller or blanket) that then transfers the ink film to the substrate.

Rotogravure printing: a roll-printing process that uses an intaglio or recessed image areas called cells to apply the image with the printing roll.

Digital printing: a printing process that prints a digital image directly on to a substrate without an image plate.

Substrate: the material that is being printed on.

Flexible packaging: any package or part of a package where its shape may be easily changed (includes: bag, pouch, liner, or wrap made of paper, plastic, film, foil, metalized film, or coated film/paper).

Sheet-fed: a printing process in which individual sheets of substrate are fed to the press.

Web-based: a printing process in which continuous rolls of substrate material are fed to the press and rewound or cut to size after printing.

Heatset: when the inks in a printing process are set by evaporation in a dryer or any device that heats the printed substrate to promote evaporation of ink oils.

Non-heatset (or coldset): when the inks in a printing process dry on the substrate through regular evaporation and absorption (includes ink curing by ultra-violet light or electron beam).

Fountain solution: a water-based solution applied to the image plate in offset lithographic printing to reduce the surface tension of the solution.

Cleaning solvents: any liquid solvent used to clean the operating surfaces of the printing press and its parts.

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