

## 5-253.17 Industrial Solvent Cleaning

(a) Applicability.

- (1) Except as provided at paragraph (a)(3) below, this section shall apply to an owner or operator of any premises who purchases for use at the premises at least 855 gallons of *cleaning solvents*, in aggregate, per rolling 12-month period.
- (2) Any owner or operator which is subject to the requirements of this section shall comply with the requirements of this section on or before September 15, 2018 and shall remain so even if solvent use subsequently falls below the applicability threshold.
- (3) The requirements of this section shall not apply to the following:
  - (i) The use or purchase of *cleaning solvent* in
    - (A) *janitorial cleaning*,
    - (B) *research and development*,
    - (C) *quality control or laboratory testing of coatings, inks or adhesives*,
    - (D) *medical device manufacturing*,
    - (E) *pharmaceutical manufacturing*,
    - (F) *digital printing operation*,
    - (G) *cleaning of screen printing equipment, if the cleaning solvent used has an as-applied VOC content that does not exceed 500 grams per liter, equivalent to 4.2 pounds per gallon*,
    - (H) *cleaning activities at stationary sources which are engaged in: Aerospace coating; Paper, fabric, film, and foil coating; Metal furniture coating; Wood furniture coating; Flexible packaging printing; Offset lithographic and letterpress printing; Flat wood paneling coating; Miscellaneous metal products coating; Plastic parts coating; Fiberglass boat manufacturing materials; and Miscellaneous industrial adhesives, Electrical and electronic components; Precision optics; Numismatic dies; Stripping of cured inks, coatings, and adhesives; Cleaning of resin, coating, ink, and adhesive mixing, molding, manufacturing and application equipment*,
    - (I) *A cleaning activity, including surface preparation prior to coating, necessary to meet a standard or specification issued or approved by the United States Department of Defense, Federal Aviation Administration or other federal government entity, provided that any person claiming exemption pursuant to this paragraph shall maintain records of the standard or specification*,

- (ii) Any owner or operator performing *industrial solvent cleaning* that exceeds the applicable limit of paragraph (c)(1)(i) of this section where the quantity used does not exceed 55 gallons per any twelve-month rolling aggregate. Any owner or operator claiming exemption pursuant to this clause shall record and maintain monthly records sufficient to demonstrate compliance with this exemption, or
- (iii) Any owner or operator performing *industrial solvent cleaning* that exceeds the applicable limit of paragraph (c)(1)(i) of this section, if approved by the Air Pollution Control Officer and the EPA. Any request for approval shall be made in writing to the Air Pollution Control Officer and the EPA and shall include a description of the *cleaning solvent* and its *VOC content*, an explanation of why the *cleaning solvent* is necessary, quantification of the amount of the VOC that will be emitted as a result of the use of the noncompliant *cleaning solvent* and the time period over which the noncompliant solvent will be used.

(b) Definitions. For the purpose of this section, the following definitions apply, in addition to those of Section 5-101.

"*Cleaning solvent*" means any VOC-containing liquid, including a liquid impregnated wipe or towelette, used in cleaning;

"*Control device efficiency*" means the ratio of VOC emissions recovered or destroyed by the control device to the total VOC emissions that are introduced into the device, expressed as a percentage;

"*Industrial solvent cleaning*" means the use of *cleaning solvent* to remove uncured adhesives, uncured inks, uncured coatings or contaminants such as dirt, soil or grease from parts, products, tools, machinery, equipment or work areas, where such parts, products, tools, machinery, equipment and work areas are incorporated into or used exclusively in manufacturing a product. "*Industrial solvent cleaning*" includes spray booth cleaning, cleaning of manufactured components, parts cleaning, cleaning of production equipment for maintenance or to prohibit cross-contamination, and cleaning of tanks, mixing pots, process vessels and lines. "*Industrial solvent cleaning*" does not include the cleaning of personal protection equipment, such as respirators.

"*Janitorial cleaning*" means general and maintenance cleaning of building or facility components including, but not limited to, floors, ceilings, walls, windows, doors, stairs, restrooms, furnishings, kitchens and exterior surfaces of office equipment. "*Janitorial cleaning*" includes graffiti removal. "*Janitorial cleaning*" does not include the cleaning of parts, products or equipment, where such parts, products or equipment are incorporated into or used exclusively in manufacturing a product. "*Janitorial cleaning*" excludes the cleaning of work areas, such as laboratory benches, where manufacturing or repair activity is performed;

"*Medical device*" means an instrument, apparatus, implement, machine, gadget, appliance, implant, in vitro reagent or other similar or related article, including any component, part or accessory, which meets one of the following conditions:

- (1) Recognized in the official National Formulary or the United States Pharmacopeia or any supplement thereto,
- (2) Intended for use in the diagnosis of disease or other conditions or in the cure, mitigation, treatment or prevention of disease, in persons or animals, or
- (3) Intended to affect the structure or function of the body of a person or animal, and which does not achieve its primary intended purposes through chemical action within or on such body and which is not dependent upon being metabolized for the achievement of its primary intended purposes; and

"VOC content" means the as-applied VOC content of a *cleaning solvent* at the time of use, including any solvent, catalyst or other substance added to the as-supplied *cleaning solvent*. "VOC content" is determined using an EPA reference method, a California Air Resources Board reference method or other method approved by the Air Pollution Control Officer and EPA.

(c) Standards.

- (1) Any owner or operator performing *industrial solvent cleaning*, except as provided in paragraph (a), shall use one of the following methods to limit VOC emissions:
  - (i) Use only *cleaning solvent* that complies with one of the following limitations:
    - (A) As-applied, has a VOC content that does not exceed 50 grams per liter (0.42 lb/gal), or
    - (B) As-applied, has a vapor pressure no greater than 8 mmHg at 20°C; or
  - (ii) Install, operate and maintain in accordance with the manufacturer's recommendations, air pollution control equipment that reduces uncontrolled VOC emissions to the atmosphere from any *industrial solvent cleaning* by an overall emissions reduction efficiency of at least 85%.

(d) Work practices. Each owner or operator shall use the following work practices:

- (1) New and used *cleaning solvent*, including those mixed on the premises, shall be stored in a nonabsorbent, non-leaking container. Such a container shall be kept closed at all times except when the container is being filled, emptied or is otherwise actively in use;
- (2) Spills and leaks of *cleaning solvent* shall be minimized. Any leaked or spilled *cleaning solvent* shall be absorbed and removed immediately;
- (3) Absorbent applicators, such as cloth and paper, which are moistened with *cleaning solvent*, shall be stored in a closed, nonabsorbent, non-leaking container for disposal or recycling; and
- (4) *Cleaning solvent* shall be conveyed from one location to another in a closed container or pipe.

(e) Records.

- (1) An owner or operator conducting *industrial solvent cleaning* shall maintain records of the information described in paragraph (e)(2) of this section. Such records shall be:
  - (i) Made available to the Air Pollution Control Officer to inspect and copy upon request, and
  - (ii) Maintained for five years from the date such record is created.
- (2) An owner or operator conducting *industrial solvent cleaning* shall maintain daily records of all *cleaning solvents* used, as follows:
  - (i) Name and description of each *cleaning solvent*,
  - (ii) *VOC content* of each *cleaning solvent*, as-applied, and the associated calculations,
  - (iii) *VOC content* of each *cleaning solvent*, as supplied,
  - (iv) The amount of each *cleaning solvent*,
  - (v) A Material Safety Data Sheet for each *cleaning solvent*,
  - (vi) Documentation of *control device efficiency* and *capture efficiency*, if applicable, using an applicable EPA reference method or alternate method as approved by the Air Pollution Control Officer and the EPA, and
  - (vii) Date and type of maintenance performed on air pollution control equipment, if applicable.
- (3) Any owner or operator conducting *industrial solvent cleaning* who is not otherwise subject to the provisions of this section shall maintain materials purchase records to verify that the provisions of this section do not apply to such owner or operator.
- (4) An owner or operator conducting *industrial solvent cleaning* subject to an exemption or exception in paragraph (a) of this subsection shall maintain records sufficient to verify the applicability of the exemption or exception.