

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents

NYCRR Title 6, Ch. III, Subch. A, Pt. 226, Refs & Annos
[Currentness](#)

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.1

Section 226.1. [Renumbered]

Currentness

Credits

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; renum. 226.2, new filed Jan. 15, 1973; repealed, filed Aug. 27, 1974; new filed July 24, 1979 eff. 30 days after filing; amendment filed April 7, 2003 eff. May 7, 2003; renumbered to § 226-1.2 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.2

Section 226.2. [Renumbered]

[Currentness](#)

Credits

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; repealed, new added by renum. and amd. 226.1, filed Jan. 15, 1973; repealed, filed Aug. 27, 1974; new filed July 24, 1979; amd. filed April 7, 2003 eff. 30 days after filing; renumbered to § 226-1.3 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.3

Section 226.3. [Renumbered]

Currentness

Credits

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; amd. filed Jan. 15, 1973; repealed, filed Aug. 27, 1974; new filed July 24, 1979; amd. filed April 7, 2003 eff. 30 days after filing; renumbered to § 226-1.4 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226.3, 6 NY ADC 226.3

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.4

Section 226.4. [Renumbered]

Currentness

Credits

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; amd. filed Jan. 15, 1973; repealed, filed Aug. 27, 1974; new filed July 24, 1979; amd. filed April 7, 2003 eff. 30 days after filing; renumbered to § 226-1.5 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226.4, 6 NY ADC 226.4

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.5

Section 226.5. [Renumbered]

Currentness

Credits

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; amd. filed Jan. 15, 1973; repealed, filed Aug. 27, 1974; new filed July 24, 1979; amd. filed April 7, 2003 eff. 30 days after filing; renumbered to § 226-1.6 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226.5, 6 NY ADC 226.5

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.6

Section 226.6. [Renumbered]

Currentness

Credits

Sec. filed July 24, 1979; repealed, new added by renum. and amd. 226.7 filed April 7, 2003 eff. 30 days after filing; renumbered to § 226-1.7 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226.6, 6 NY ADC 226.6

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226.7

Section 226.7. [Renumbered]

[Currentness](#)

Credits

Sec. filed July 24, 1979; renum. 226.6 filed April 7, 2003 eff. 30 days after filing.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents
Subpart 226-1. Solvent Cleaning Processes

NYCRR Title 6, Ch. III, Subch. A, Pt. 226, Subpt. 226-1, Refs & Annos
[Currentness](#)

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.1

Section 226-1.1. Applicability

Currentness

(a) Applicability. This Subpart applies to all owners or operators of facilities who operate cold cleaners (including remote reservoir cold cleaning machines), open-top vapor degreasers, and all types of conveyORIZED degreasers that carry out solvent cleaning processes of metal objects using a solution containing volatile organic compounds (VOCs). After December 1, 2020, this Subpart also applies to cleaning of non-metal objects.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.1, 6 NY ADC 226-1.1

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.2

Section 226-1.2. Definitions

Currentness

(a) To the extent that they are not inconsistent with the specific definitions in subdivision (b) of this section, the general definitions of Part 200 of this Title apply.

(b) For the purposes of this Subpart, the following specific definitions also apply:

(1) **Cold cleaning degreasing.** Batch process of solvent cleaning, with liquid solvent, by spraying, brushing, flushing or immersion while maintaining the solvent below its boiling point. Wipe cleaning is not included in this definition.

(2) **Conveyorized degreasing.** Continuous process of solvent cleaning by operating with either cold or vaporized solvents.

(3) **Degreaser.** Any solvent cleaning machine used to perform cold cleaning degreasing, remote reservoir degreasing, conveyorized degreasing, or open top vapor degreasing.

(4) **Freeboard height.** Distance from the top of the vapor zone to the top of the degreaser tank. On cold cleaners, it is the distance from liquid level to lip of tank.

(5) **Freeboard ratio.** Freeboard height divided by the interior width of the degreaser tank.

(6) **Open top vapor degreasing.** Process of solvent cleaning by condensing hot solvent vapor on the colder parts.

(7) **Remote reservoir degreasing.** Cold cleaning degreasing performed in a device in which liquid solvent is pumped to a sink like work area, where the parts are cleaned, and then drains back into an enclosed container allowing no solvent to pool in the work area.

(8) **Solvent cleaning.** Process of cleaning soils from surfaces by using a volatile organic compound (VOC).

(9) **Special and extreme solvent cleaning.** The use of degreasers:

(i) to clean parts in the manufacturing and rework of electronic parts, assemblies, boxes, wiring harnesses, sensors and connectors used in aerospace service;

(ii) to clean parts used in the manufacturing of ozone, nitrous oxide, fluorine, chlorine, bromine, halogenated compounds, or oxygen in concentrations greater than 23 percent; or

(iii) to clean parts exposed to ozone, nitrous oxide, fluorine, chlorine, bromine, halogenated compounds, or oxygen in concentrations greater than 23 percent.

Credits

Renumbered from § 226.1 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.2, 6 NY ADC 226-1.2

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.3

Section 226-1.3. General requirements

Currentness

Owners or operators conducting solvent cleaning processes must:

- (a) store solvent in covered containers and transfer or dispose of waste solvent in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere;
- (b) maintain equipment to minimize leaks and fugitive emissions;
- (c) display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs;
- (d) keep the degreaser cover closed except when parts are being placed into or being removed from the degreaser, the cover needs to be open in order to add or remove solvent from the degreaser, no solvent is in the degreaser, or manually cleaning parts in a cold cleaning degreaser;
- (e) create and maintain a record of solvent consumption for five years. This record must be retained for five years and made available to the department upon request.
- (f) not clean sponges, fabric, wood, leather, paper products and other absorbent materials in a degreaser; and
- (g) if using a cold cleaning degreaser that is subject to paragraph 226-1.4(a)(4) of this Subpart, retain a record of the following three items for five years and provide these records to the department upon request. An invoice, a bill of sale, a certificate covering multiple sales, manufacturers published information or other appropriate documentation acceptable to the department may be used to comply with this requirement:

(1) the name and address of the solvent supplier;

(2) the type of solvent including the product or vendor identification number; and

(3) the VOC content of the cleaning solution in grams per liter (gm/l) or the vapor pressure of the solvent measured in mm Hg at 20°C (68°F) as appropriate to verify compliance.

Credits

Renumbered from § 226.2 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.3, 6 NY ADC 226-1.3

End of Document

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.4

Section 226-1.4. Equipment specifications and control requirements

Currentness

Except as otherwise permitted by the department pursuant to section 226-1.6 of this Part, the following types of control requirements must be used by an owner or operator conducting solvent cleaning:

(a) Cold cleaning degreasing when the internal volume of the machine is greater than two gallons.

(1) A cover which can be operated easily.

(2) An internal drainage facility (under cover), if practical.

(3) A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.5, or a water cover when the solvent is insoluble in and heavier than water. Remote reservoir degreasers are exempt from this requirement.

(4) Cleaning solution with a maximum VOC content of 25 grams per liter at 20°C; prior to December 1, 2020, a cleaning solution with a vapor pressure of 1.0 mm Hg, or less, at 20°C may be used to demonstrate compliance with this subdivision. This paragraph does not apply to degreasers:

(i) used in special and extreme solvent cleaning;

(ii) for which the owner or operator has received department approval of a demonstration that compliance with the requirement of a cleaning solution with a maximum VOC content of 25 grams per liter at 20°C, or with a vapor pressure of 1.0 mm Hg, or less, at 20°C will result in unsafe operating conditions; or

(iii) that are located in a permanent total enclosure having control equipment that is designed and operated with an overall VOC removal efficiency of 90 percent or greater.

(5) Cleaning solution used to clean post-solder printed circuit boards (PCB's) as well as critical adjunct processes, including the cleaning of raw solder paste and adhesives from hard surfaces, such as stencils and misprinted boards during the printing

process, and baked on fluxes (polymerized fluxes) from reflow and wave solder oven components, such as conveyor fingers and condensation traps, may contain no more than 150 grams VOC per liter of solution and must follow all other provisions of this Subpart.

(b) Open top vapor degreasing.

(1) A cover which can be operated easily without disturbing the vapor zone.

(2) Safety switches which shut off the sump heat if the condenser malfunctions and shall shut off the pump if the vapor level drops excessively.

(3) One of the following:

(i) a freeboard ratio that is greater than or equal to 0.75, and a powered or mechanically assisted cover if the top opening is greater than 10 square feet;

(ii) a refrigerated chiller; or

(iii) local exhaust ventilation and a carbon adsorption unit, or an equivalent system, for collection of VOCs.

(c) Conveyorized degreasing.

(1) One of the following:

(i) a refrigerated chiller; or

(ii) local exhaust ventilation and a carbon adsorption unit, or an equivalent system, for collection of VOCs.

(2) A drying tunnel, rotating basket or other device acceptable to the department which prevents carry out of VOCs.

(3) Safety switches which shut off the system when the degreaser malfunctions.

(4) Minimize openings at the entrance and exit of the degreaser.

Credits

Renumbered from § 226.3 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.4, 6 NY ADC 226-1.4

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.5

Section 226-1.5. Operating requirements

Currentness

Except as otherwise allowed by the department pursuant to section 226-1.6 of this Subpart, the following operating practices are required by a person conducting solvent cleaning:

(a) Cold cleaning degreasing. Clean parts shall be drained at least 15 seconds or until dripping ceases.

(b) Open top vapor degreasing.

(1) Minimize solvent carry out by the following measures:

(i) rack parts to allow full drainage;

(ii) move parts in and out of degreaser tank at less than 11 ft/min;

(iii) degrease the work load in the vapor zone at least 30 seconds or until condensation ceases;

(iv) tip out any pools of solvent before removal; and

(v) dry parts for at least 15 seconds before removal.

(2) Work loads shall not occupy more than half the open top area of the degreaser tank.

(3) Spray only below the vapor level.

(c) ConveyORIZED degreasing.

(1) Exhaust ventilation rate shall not exceed 125 percent of the minimum ventilation rate required for the protection of workers in the vicinity of the degreaser.

(2) Minimize carry out emissions by:

(i) proper racking for best drainage; and

(ii) maintaining a conveyor speed at less than 11 ft/min.

(3) Water must not be visibly detectable in the solvent leaving the water separator.

Credits

Renumbered from § 226.4 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.5, 6 NY ADC 226-1.5

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.6

Section 226-1.6. Reasonably available control technology

Currentness

Where it can be demonstrated that a solvent cleaning process cannot be controlled to comply with sections 226-1.3, 226-1.4 and 226-1.5 of this Subpart for reasons of technological and economic infeasibility, the Department may accept a lesser degree of control upon submission of satisfactory evidence that the person engaging in solvent cleaning is applying reasonably available control technology (RACT) and has a plan to develop the technologies necessary to comply with the aforementioned sections. Process specific RACT demonstrations shall be submitted with the application for a Title V or State Facility permit or as a permit modification for existing sources under the provisions of Part 201 of this Title. Such process specific RACT demonstrations must be submitted to the United States Environmental Protection Agency for approval as a revision to the State Implementation Plan.

Credits

Renumbered from § 226.5 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.6, 6 NY ADC 226-1.6

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.7

Section 226-1.7. Exemptions

Currentness

(a) This Subpart shall not apply to:

- (1) conveyORIZED degreasers with an air/vapor interface smaller than 22 square feet (2.0 m²);
- (2) open top vapor degreasers with an open top area smaller than 11 square feet (1.0 m²); and
- (3) conveyORIZED and open top vapor degreasers subject to the requirements in 40 CFR 63, Subpart T.

Credits

Renumbered from § 226.6 amd. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.7, 6 NY ADC 226-1.7

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-1. Solvent Cleaning Processes (Refs & Annos)

6 NYCRR 226-1.8

Section 226-1.8. Severability

Currentness

Each provision of this Subpart shall be deemed severable, and in the event that any provision of this Subpart is held to be invalid, the remainder of this Subpart shall continue in full force and effect.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-1.8, 6 NY ADC 226-1.8

End of Document

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents
Subpart 226-2. Industrial Cleaning Solvents

NYCRR Title 6, Ch. III, Subch. A, Pt. 226, Subpt. 226-2, Refs & Annos
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End of Document

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-2. Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226-2.1

Section 226-2.1. Applicability, schedule and exceptions

Currentness

(a) Applicability. This Subpart applies to the owner or operator of a facility which has actual emissions of three (3) tons or more of volatile organic compounds (VOCs) from industrial cleaning solvents, on a twelve-month rolling total basis. This Subpart specifically applies to the cleaning of foreign materials from surfaces of unit operations such as large and small manufactured components, parts, equipment, floors, tanks, and vessels. Emissions from all methods of cleaning, including by hand, will be considered toward the applicability criteria.

(b) Schedule. The owner or operator of a facility with an initial start-up after the effective date of this Subpart must be in compliance with its requirements upon start-up. The owner or operator of an existing facility must be in compliance with this Subpart within one year of the effective date of this Subpart or within one year of reaching the applicability criteria of emitting three (3) tons or more of VOC's from industrial cleaning solvents on a twelve (12) month rolling total basis.

(c) Exceptions. The emissions from cleaning solvents by any of the industries or processes identified in this subdivision do not count towards the 3 tons per year applicability threshold for Subpart 226-2. The requirements of this Subpart do not apply to the following:

(1) The use of cleaning solvents in cold cleaning degreasers (including remote reservoir degreasers), open-top vapor degreasing and conveyORIZED degreasers; and including cleaning items defined as 'special and extreme solvent cleaning' subject to Subpart 226-1, and cleaning processes that specifically do not apply to Subpart 226-1 under 226-1.7(a);

(2) The use of cleaning solvents in surface coating processes to clean spray guns subject to Subpart 228-1; and for surface preparation, clean-up and coating removal subject to Subpart 228-1, including items specified as not being subject to the rule in Subpart 228-1.1(b);

(3) The use of cleaning solvents for surface preparation and clean-up of adhesives, sealants and primers subject to Subpart 228-2, including items exempt from the rule in Subpart 228-2.2;

(4) The use of cleaning solvents for offset lithographic, flexographic, rotogravure, screen printing or letterpress printing processes subject to Part 234, including items specified as not being subject to the rule in Part 234.1(d);

- (5) The use of cleaning solvents used in Aircraft de-icing operations exempt from permitting under Subpart 201-3;

- (6) Cleaning solvents given an “A” rating by the Department or that are already subject to RACT and/or T-BACT subject to Part 212; and

- (7) The use of any cleaning solvent specified or regulated under any Federal or State statute or regulation which specifies a VOC limit or exemption.

- (8) The use of cleaning solvents:
 - (i) to clean personal protection equipment

 - (ii) for personal hygiene such as hand sanitizers

 - (iii) to clean medical equipment

 - (iv) in research and development activities; and

 - (v) in janitorial supplies used for cleaning offices, bathrooms or other similar areas.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-2.1, 6 NY ADC 226-2.1

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-2. Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226-2.2

Section 226-2.2. Definitions

Currentness

(a) To the extent that they are not inconsistent with the specific definitions in this section, the general definitions of Part 200 of this Title apply. For the purposes of this Subpart, the following specific definitions also apply:

- (1) **Cleaning Tool.** An item used to aid cleaning, such as wiping rags, brushes, mops, scrapers, or water jets.

- (2) **Industrial Cleaning Solvent.** Any liquid containing a volatile organic compound (VOC) used to facilitate the removal of foreign materials from a surface.

- (3) **Unit Operation.** An industrial operation, classified or grouped according to its function in an operating environment, such as mixing or holding vessels, tanks, reactors, floors or other surfaces to be cleaned.

- (4) **Unit Operation Systems.** The ensemble of equipment around which a material balance is performed. It includes all possible points/sources that could result in losses to the atmosphere as a result of the equipment being cleaned, including losses during dispensing of cleaning materials, losses from residual cleaning materials on or in cleaning tools, and losses from storing cleaning materials.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-2.2, 6 NY ADC 226-2.2

Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-2. Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226-2.3

Section 226-2.3. Control requirements

Currentness

The owner or operator of a facility subject to this Subpart shall not conduct any cleaning, with industrial cleaning solvents containing VOC's, unless the following control measures are used:

(a) Work Practice.

- (1) use closed, non-leaking containers to store or dispose of cloth or other absorbent cleaning tools impregnated with industrial cleaning solvents when not in use;
- (2) minimize air circulation around cleaning operations;
- (3) properly dispose of used cleaning solvents and tools;
- (4) implement equipment practices that minimize emissions, such as maintaining of cleaning equipment and repair of solvent leaks; and
 - (i) an industrial cleaning solvent with a maximum VOC content of fifty (50) grams of VOC per liter (0.42 pounds of VOC per gallon) of cleaning material must be used for cleaning the following: large and small manufactured components, parts, equipment, floors, tanks, and vessels; or
 - (ii) as an alternative to the maximum VOC content specified above, an industrial cleaning solvent with a maximum composite vapor pressure of eight (8) millimeters of mercury (mmHg) at 20 degrees Celsius may also be used; or
 - (iii) emissions are controlled by an emission control system with an overall control efficiency of at least 85 percent or equivalent control.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-2.3, 6 NY ADC 226-2.3

End of Document

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Compilation of Codes, Rules and Regulations of the State of New York
Title 6. Department of Environmental Conservation
Chapter III. Air Resources
Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-2. Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226-2.4

Section 226-2.4. Compliance

Currentness

Reasonably available control technology.

(a) Where it can be demonstrated by the owner or operator of a facility that the requirements of section 226-2.3 of this Subpart cannot be met, for reasons of technological and economic infeasibility, the Department may accept a lesser degree of control upon submission of satisfactory evidence that the person(s) engaging in cleaning with industrial cleaning solvents is applying reasonably available control technology (RACT) and has a plan to develop the technologies necessary to comply with Section 226-2.3. Process specific RACT demonstrations shall be submitted with the application for a Title V or State Facility permit, or as a permit modification for existing sources under the provisions of Part 201 of this Title. The Department will submit such process specific RACT demonstration to the United States Environmental Protection Agency as a revision to the State Implementation Plan.

Record Keeping.

(b) The owner or operator of a facility must retain a record of the quantity and type of industrial cleaning solvents used at the facility. This record must be maintained for a period of five years and be provided to the department upon request. An invoice, a bill of sale, a certificate covering multiple sales, a material safety data sheet, or other documentation suitable for establishing compliance, acceptable to the department, may be used to comply with this requirement.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-2.4, 6 NY ADC 226-2.4

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Title 6. Department of Environmental Conservation
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Subchapter A. Prevention and Control of Air Contamination and Air Pollution
Part 226. Solvent Cleaning Processes and Industrial Cleaning Solvents (Refs & Annos)
Subpart 226-2. Industrial Cleaning Solvents (Refs & Annos)

6 NYCRR 226-2.5

Section 226-2.5. Severability

Currentness

Each provision of this Subpart shall be deemed severable, and in the event that any provision of this Subpart is held to be invalid, the remainder of this Subpart shall continue in full force and effect.

Credits

Sec. filed Oct. 2, 2019 eff. Nov. 1, 2019.

Current with amendments included in the New York State Register, Volume XXLII, Issue 29 dated July 22, 2020. Court rules under Title 22 and Executive Orders under Title 9 may be more current.

N.Y. Comp. Codes R. & Regs. tit. 6, § 226-2.5, 6 NY ADC 226-2.5

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