

RULE 109

Recordkeeping for Volatile Organic Compound Emissions

(A) General

(1) Purpose

- (a) The purpose of this rule is to ensure that adequate records of volatile organic compound use are made and maintained.

(2) Applicability

- (a) The provisions of this rule shall apply to an owner or operator of a stationary source within the District conducting operations, which include the use of adhesives, coatings, solvents, and/or graphic arts materials, when records are required to determine a District rule's applicability or source's exemption from a rule, rule compliance, or specifically as a Permit to Operate or Permit to Construct condition.
- (b) District rules requiring recordkeeping as outlined by District Rule 109 include, but are not limited to, the following:

- 442 - Usage of Solvents
- 1102 - Petroleum Solvent Dry Cleaners
- 1104 - Wood Flat Stock Coating Operations,
- 1107 - Coating of Metal Parts and Products,
- 1122 - Solvent Cleaners (Degreasers),
- 1124 - Aerospace Assembly and Component Coating Operations,
- 1128 - Paper, Fabric, and Film Coating Operations,
- 1130 - Graphic Arts,
- 1130.1 - Screen Printing Operations
- 1136 - Wood Products Coatings,
- 1145 - Plastic, Rubber, and Glass Coatings and Adhesives,
- 1151 - Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations,
- 1162 - Polyester Resin Operations
- 1164 - Semiconductor Manufacturing,
- 1168 - Control of Volatile Organic Compound Emissions from Adhesive Applications.
- 1171 - Solvent Cleaning Operations

(B) Definitions

- (1) Exempt Compounds - Any compound listed in 40 CFR 51.100(s)(1).
- (2) Facility - Any permit unit, group of permit units, non-permitted equipment or any combination thereof which emits or may emit an Air Pollutant; and belongs to a single major industrial group in the Standard Industrial Classification manual; and is located on a single parcel of land or on contiguous property within the District; and which is owned or operated by the same person or by persons under common control.
- (3) Graphic Arts Materials - Any inks, coatings, adhesives, fountain solutions, thinners retarders, or cleaning solutions used in printing or related coating or laminating processes.
- (4) Low Solids Adhesive, Adhesive Primer, or Stain - An adhesive, adhesive primer or stain which has less than one pound of solids per gallon of material.
- (5) Permit Unit - Any article, machine, equipment, or other contrivance, or combination thereof, which may cause the issuance or control the issuance of air contaminants, and which:
 - (a) Requires a written permit pursuant to the provisions of District Rules 201 and/or 203; or
 - (b) Is in operation pursuant to the provisions of District Rule 219.
- (6) South Coast Air Quality Management District (SCAQMD) - The air quality district created pursuant to Division 26, Part 3, Chapter 5.5 of the California Health & Safety Code (commencing with §40400).
- (7) Stationary Source - Any permit unit or grouping of permit units or other air contaminant-emitting activities which are located on one or more contiguous properties within the District, in actual physical contact or separated solely by a public roadway or other public right-of-way, and are owned or operated by the same person (or by persons under common control). Such above-described groupings, if non-contiguous, but connected only by land carrying a pipeline, shall not be considered one stationary source.
- (8) Volatile Organic Compound (VOC) - Any volatile compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds as defined in subsection (B)(1) above.

(C) **Daily Recordkeeping Requirements**

- (1) An owner or operator of a stationary source using adhesives, coatings, solvents, and/or graphic arts materials and subject to this rule shall maintain daily records of operations for the most recent two (2) year period. The records shall be retained on the premises of the affected operation for a period of not less than two

(2) years. Said records shall be made available to the District upon request. The records shall include, but not be limited to, the following:

- (a) Each applicable District rule number pertinent to the operation for which records are being maintained;
- (b) A list of the permit units involved in the operation(s) using adhesives, coatings, solvents, and/or graphic arts materials;
- (c) The method of application and substrate type;
- (d) The amount and type of adhesive, coating (including catalyst and reducer), solvent, and/or graphic arts material used in each permit unit or dispensing station (when permitted equipment is not involved), including exempt compounds (containers of one pint or less may be recorded in an alternative manner including but not limited to assuming full consumption on day of first use and/or calculating an average daily consumption by determining the number of operating days a single pint container of material was in active use at a facility);
- (e) The VOC content in each adhesive, coating (including catalyst and reducer), solvent, and/or graphic arts material;
- (f) The amount of diluent, surface preparation, clean-up, or wash-up solvent (including exempt compounds) used and the VOC content of each (containers of one pint or less may be recorded in an alternative manner);
- (g) Where applicable, the vapor pressure of solvents used as surface cleaners; and
- (h) Where applicable, oven temperature (for coating operations).

(D) Test Methods

- (1) VOC content shall either be calculated using a percent solids basis (less water and exempt solvents) for adhesives, coatings, and inks; or testing shall be done using USEPA Reference Method 24 (Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coatings, Code of Federal Regulations Title 40, Part 60, Appendix A, 7/1/85 edition). Analysis done according to USEPA Method 24 shall utilize Procedure B of ASTM Method D-2369, referenced within USEPA Method 24. The exempt solvent content shall be determined using SCAQMD Test Methods 302 and 303 (SCAQMD "Laboratory Methods of Analysis for Enforcement Samples" manual). Alternatively, the VOC content may be determined using SCAQMD Test Methods 302, 303, and 304. The test method shall be documented. The VOC content may be supplied by a Material Safety Data Sheet (MSDS) or data sheet provided the test methods described above are used and specified on the MSDS or data sheet.

- (2) VOC content and density of rotogravure publication inks shall be determined by USEPA Reference Method 24A (Determination of Volatile Matter Content and Density of Printing Inks and Related Coatings, Code of Federal Regulations Title 40, Part 60, Appendix A, 7/1/85 edition). The exempt solvent content shall be determined using SCAQMD Test Methods 302 and 303 (SCAQMD "Laboratory Methods of Analysis for Enforcement Samples" manual). Alternatively, the VOC content may be determined using SCAQMD Test Methods 302, 303, and 304.
- (3) VOC content for low solid adhesive, adhesive primer, or stain shall be calculated by the method used to calculate the "Grams of VOC per Liter of Material" as specified in District Rules 1136 and 1168.
- (4) Any applicable alternative test method may be used so long as such method has been approved by USEPA, CARB and the APCO.
- (5) When more than one test method or set of methods are specified for any testing, noncompliance with any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this rule.

The following classes of compounds: cyclic, branched, or linear, completely fluorinated alkanes; cyclic, branched, or linear, completely fluorinated ethers with no unsaturations; cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine, will be analyzed as exempt compounds, only at such time as manufacturers specify which individual compounds are used in the coating formulations and identify the test methods, which, prior to such analysis, have been approved by the USEPA and the District, that can be used to quantify the amounts of each exempt compound.

(E) Exemptions

- (1) The provisions of this rule shall not apply to the application of materials that contain less than 20 g/l of VOC.

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