# REGULATION 8 ORGANIC COMPOUNDS RULE 13

## LIGHT AND MEDIUM DUTY MOTOR VEHICLE ASSEMBLY PLANTS

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# REGULATION 8 ORGANIC COMPOUNDS RULE 13

## LIGHT AND MEDIUM DUTY MOTOR VEHICLE ASSEMBLY PLANTS

(Adopted January 24, 1979)

	(Adopted January 24, 1979)
8-13-100	GENERAL
8-13-101	<b>Description:</b> The purpose of this Rule is to limit emissions of volatile organic compounds (VOC) from operations at light- and medium-duty motor vehicle assembly plants.
8-13-110 8-13-111	Deleted September 20, 1989 Deleted September 20, 1989
8-13-200	DEFINITIONS
8-13-201	<b>Coating Line:</b> That portion of a motor vehicle assembly plant where surface coatings are applied, dried and/or cured on such vehicles or vehicle components.  (Amended September 20, 1989)
8-13-202	Electrophoretic Primer: Any primer applied by dipping the component in a coating
0 42 202	bath with an electrical potential difference between the component and the bath.
8-13-203	<b>Light- and Medium-Duty Motor Vehicles:</b> All passenger cars, light-duty trucks and medium-duty vehicles as defined in Section 1900, Title 13, California Code of Regulations. (Amended September 20, 1989)
8-13-204	Primer: All coatings under the topcoat.
8-13-205	Primer Surfacer: Any primer coating applied over an electrophoretic primer for the
8-13-206	primary purpose of establishing film build. (Amended September 20, 1989) <b>Spray Primer:</b> Any primer, including sealers and adhesives, except primer surfacer.
	(Amended September 20, 1989)
8-13-207	<b>Topcoat:</b> The final coating or series of coatings applied for the purpose of establishing the final color and/or protective surface, including ground coat, basecoat/clearcoat systems and paint sealer materials.(Amended September 20, 1989)
8-13-208	Deleted September 20, 1989
8-13-209	<b>Transfer Efficiency:</b> The ratio of coating solids applied on the object being coated to the total volume of coating solids sprayed in the operation, expressed as a percentage as demonstrated pursuant to Section 8-13-603.
	(Adopted November 17, 1982; Amended September 20,1989)
8-13-210	<b>Volatile Organic Compound:</b> Any organic compound (excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates and
	ammonium carbonate) which would be emitted during use, application, curing or
	drying of a solvent or surface coating.
	210.1 For purposes of calculating VOC content of a coating, any water or any of the following non-precursor organic compounds shall not be considered to be
	part of the coating:
	methylene chloride
	1,1,1 trichloroethane triclorotrifluoroethane (CFC-113)
	trichlorofluoromethane (CFC-11)
	dichlorodifluoromethane (CFC-12)
	dichlorotetrafluoroethane (CFC-114) chloropentafluoroethane (CFC-115)
	acetone
	parachlorobenzotrifluoride (PCBTF)
	cyclic, branched or linear, completely methylated siloxanes (VMS)
	(Adopted September 20, 1989, Amended December 20, 1995)

**8-13-211 Final Repair Coat:** Any incidental coating applied to a fully assembled vehicle or vehicle part subsequent to the overall vehicle or vehicle part coating for the purpose of repairing minor imperfections or mechanical damage incurred prior to intended use.

(Adopted September 20, 1989; Amended June 15, 1994)

- **8-13-212 Flexible Parts Coatings:** Any coating intended for use on a part or product designed to withstand significant deformation without apparent damage, such as flexible automobile bumpers. (Adopted September 20, 1989)
- **8-13-213 Flow Control Material:** Solvent added to the electophoretic primer coating tank for the purpose of stabilizing flow of the tank mixture. (Adopted September 20, 1989)
- **8-13-214 Off-Line Automotive Coatings:** Incidental coating of automobile components which does not occur on the vehicle body coating line(s).(Adopted September 20, 1989)
- **8-13-215 Key System Operating Parameter:** An air pollution abatement equipment operating parameter, such as temperature, flow rate or pressure, that ensures operation of the abatement equipment within manufacturer specifications and compliance with the standards in Sections 8-13-306, 307, and 308.(Adopted June 15, 1994)

#### 8-13-300 **STANDARDS**

- 8-13-301 Deleted September 20, 1989
- **8-13-302 Final Limits, Topcoat, Spray Primer, Primer Surfacer:** For each operation as defined pursuant to Section 8-13-603, a person shall not discharge into the atmosphere VOC emissions in excess of:
  - 302.1 1.80 kilograms of VOC per liter (15.0 lbs/gal) of applied coating solids from each spray primer operation.
  - 302.2 1.80 kilograms of VOC per liter (15.0 lbs/gal) of applied coating solids from each primer surfacer operation.
  - 302.3 1.80 kilograms of VOC per liter (15.0 lbs/gal) of applied coating solids from each topcoat operation. (Amended September 20, 1989)
- **8-13-303 Final Repair Coat Limitation:** A person shall not apply on any light- or medium-duty vehicle coating line any final repair coat with a VOC content in excess of 580 grams per liter of coating applied, excluding water (4.8 lbs/gal), on a daily weighted average basis. (Amended September 20, 1989; October 6, 1993)
- 8-13-304 Deleted September 20, 1989
- 8-13-305 Deleted September 20, 1989
- **8-13-306 Limits, Electrophoretic Primer:** A person shall not apply to any part or product subject to this Rule any electrophoretic primer which has a VOC content in excess of 145 grams per liter (1.2 lbs/gal) of coating applied, excluding water, unless emissions to the atmosphere are controlled to an equivalent level by use of an air pollution abatement device with an abatement device efficiency of at least 90% that meets the requirements of Regulation 2, Rule 1.

(Adopted September 20, 1989; Amended October 6, 1993)

8-13-307 Limits, Flexible Parts Coatings: A person shall not apply to any flexible part or product subject to this Rule any coating which has a VOC content in excess of the following limits expressed as grams of VOC per liter (lbs VOC per gal) of coating applied, excluding water, unless emissions to the atmosphere are controlled to an equivalent level by use of an air pollution abatement device with an abatement device efficiency of at least 90% that meets the requirements of Regulation 2, Rule 1:

307.1 flexible primer 490 grams/liter (4.1 lbs/gal) 307.2 color topcoat 450 grams/liter (3.8 lbs/gal) 307.3 basecoat/clearcoat 540 grams/liter (4.5 lbs/gal) (combined system)

(Adopted September 20, 1989; Amended October 6, 1993)

**8-13-308** Limits, Off-Line Coatings: A person shall not apply to any part or product subject to this Rule any off-line coating which has a VOC content in excess of 340 grams per liter (2.8 lbs/gal) of coating applied, excluding water, unless emissions to the atmosphere are controlled to an equivalent level by use of an air pollution abatement

device with an abatement device efficiency of at least 90% that meets the requirements of Regulation 2, Rule 1.

(Adopted September 20, 1989; Amended October 6, 1993)

- **8-13-309** Surface Preparation and Cleanup Solvent: The requirements of this Section shall apply to any person using solvent for surface preparation and cleanup.
  - 309.1 A person shall use closed containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
  - 309.2 A person shall store fresh or spent solvent in closed containers.
  - 309.3 A person shall not use organic compounds for the cleanup of spray equipment, including paint lines, unless equipment for collecting the organic compounds and minimizing their evaporation to the atmosphere is used.

(Adopted September 20, 1989)

#### 8-13-400 ADMINISTRATIVE REQUIREMENTS

- 8-13-401 Deleted November 17, 1982
- 8-13-402 Deleted September 20, 1989
- 8-13-403 Deleted September 20, 1989
- 8-13-404 Deleted September 20, 1989
- 8-13-405 Deleted September 20, 1989
- 8-13-406 Compliance Verification: Any person subject to the provisions of Section 8-13-302 shall submit to the APCO for approval an initial Compliance Verification for topcoat applications on or before April 1, 1990, and a second Compliance Verification for all other coating applications on or before October 1, 1990. Subsequent Compliance Verifications shall be submitted to the APCO for approval on or before April 1 every year thereafter. A new Compliance Verification must be submitted within 180 days of a significant modification to coatings or application equipment. A Compliance Verification shall include the following elements:
  - 406.1 Amount of each coating used.
  - 406.2 VOC content of each coating used in grams per liter or pounds per gallon.
  - 406.3 Percent solids by volume of each coating used.
  - 406.4 Transfer efficiency for the application of each coating used.
  - 406.5 Calculations based on the above elements which verify compliance with the applicable standard. (Adopted September 20, 1989)

### 8-13-500 MONITORING AND RECORDS

**8-13-501 Usage Records, Electrophoretic Primer:** Any person using electrophoretic primer shall maintain records of all materials added to primer coating tank, including amount added, VOC content of material added and date added. These records shall be available for inspection for a period of two years. VOC content of electrophoretic primer shall be calculated as a monthly average, based on all materials added and their respective VOC contents. Flow-control material added during downtime periods of seven or more consecutive days for purposes of stabilizing the tank mixture may be excluded from the VOC content calculation.

(Adopted November 17, 1982; Amended September 20, 1989)

- 8-13-502 Deleted September 20, 1989
- **8-13-503 Usage Records, Coatings:** Any person subject to Sections 8-13-302, 8-13-303, 8-13-307, 8-13-308, and 8-13-309 shall comply with the following requirements:
  - 503.1 The person shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance including the following information, as applicable:
    - a. Coating, catalyst and reducer used
    - b. Mix ratio of components used
    - c. VOC content of coating as applied
  - A person shall have monthly records that provide the following information on a daily basis, as applicable:
    - a. Type of coating used

- b. Mix ratio of materials added to coating
- c. Quantity of each coating applied
- d. VOC content of each coating as applied
- 503.3 The person shall maintain records on a monthly basis showing the type and amount of solvent used for cleanup and surface preparation.
- 503.4 Such records shall be retained and available for inspection by the APCO for the previous 24-month period. (Adopted September 20, 1989)
- **8-13-504** Air Pollution Abatement Equipment, Recordkeeping Requirements: Any person operating air pollution abatement equipment to comply with Sections 8-13-306, 307 and 308, in addition to Section 8-13-503 shall record an applicable key system operating parameter(s) on a daily basis. (Adopted June 15, 1994)

#### 8-13-600 MANUAL OF PROCEDURES

- **8-13-601** Analysis of Samples: Samples of volatile organic compounds as specified in Section 8-13-300 shall be analyzed as prescribed in the Manual of Procedures, Volume III, Method 21 or 22. (Adopted March 17, 1982)
- 8-13-602 Determination of Emissions: Emissions of volatile organic compounds as specified in Sections 8-13-306, 8-13-307, and 8-13-308 shall be measured as prescribed by any of the following methods 1) BAAQMD Manual of Procedures, Volume IV, ST-7, 2) EPA Method 25 or 25A. When either EPA Method 25, or 25A is used, control device equivalency shall be determined as prescribed in 55 FR 26865 (June 29, 1990). A source shall be considered in violation if the VOC emissions measured by any of the referenced test methods exceed the standards of this rule.

  (Adopted March 17, 1982; Amended September 20, 1989; June 15, 1994)
- **8-13-603 Determination of Compliance, including Transfer Efficiency:** Determination of compliance, including transfer efficiency, to verify compliance with Section 8-13-302 and for reporting under subsection 8-13-406.4 shall be as prescribed in EPA Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations, dated December 1988.

(Adopted September 20, 1989)