

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

**RULE 8-51 – ORGANIC COMPOUNDS, ADHESIVE AND SEALANT PRODUCTS**

*(Adopted November 18, 1992) (Amended June 2, 1993; January 19, 1994; November 16, 1994; December 20, 1995; June 5, 1996; January 7, 1998; May 2, 2001; July 17, 2002)*

**REGULATION 8  
ORGANIC COMPOUNDS  
RULE 51  
ADHESIVE AND SEALANT PRODUCTS**

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**REGULATION 8  
ORGANIC COMPOUNDS  
RULE 51  
ADHESIVE AND SEALANT PRODUCTS**

(Adopted November 18, 1992)

**8-51-100 GENERAL**

**8-51-101 Description:** The purpose of this Rule is to limit the emissions of organic compounds from adhesive and sealant products. Any operation determined to be exempt from the provisions of this Rule shall be subject to the provisions of Rule 4, if not already subject to another Rule of Regulation 8.

**8-51-111 Exemption, Aerosol Adhesive Products:** The provisions of this Rule shall not apply to aerosol adhesive products as defined in Section 8-51-204.

*(Amended 11/16/94; 1/7/98; 5/2/01)*

**8-51-112 Exemption, Aerospace and Undersea-based Weapons Systems Components:** The provisions of this Rule shall not apply to the use of adhesive or sealant products in the manufacture or repair of aerospace or undersea-based weapons systems components.

**8-51-113 Exemption, Consumer Adhesives :** The requirements of this Rule shall not apply to adhesives subject to the California Air Resources Board consumer products regulation found in Title 17 of the California Code of Regulations, beginning at Section 94507.

*(Amended 6/5/96; 1/7/98)*

**8-51-114 Exemption, Low Usage:** The requirements of Section 8-51-302 shall not apply to the combined use of non-complying adhesive products at a facility in a volume of less than 75.7 liters (20 gallons) in any calendar year.

*(Amended June 5, 1996)*

**8-51-115 Exemption, Low VOC Adhesive or Sealant Products:** The requirements of this Rule shall not apply to any adhesive or sealant product with a VOC content, as defined in Section 8-51-226, of less than 20 grams per liter of VOC.

*(Amended January 7, 1998)*

**8-51-116 Exemption, Medical Equipment Manufacturing:** The requirements of this Rule shall not apply to the use of adhesive products in the manufacture of medical equipment.

*(Amended June 5, 1996)*

**8-51-117 Exemption, Research and Development Operations:** Except for the recordkeeping requirement of Section 8-51-501.1.a, the provisions of this Rule shall not apply to the testing and evaluation of adhesive or sealant products in research and development laboratories, quality assurance laboratories, or analytical laboratories, or to research and development facilities which produce only non-commercial products solely for research and development purposes.

*(Amended 11/16/94; 5/2/01)*

**8-51-118 Exemption, Specific Operations:** The requirements of this Rule shall not apply to the use of adhesives in the following operations.

118.1 Adhesives and sealants applied in Metal, Can and Coil Operations subject to Regulation 8, Rule 11.

118.2 Adhesives applied to Paper, Fabric and Film subject to Regulation 8, Rule 12.

118.3 Adhesive and sealant products applied in Light and Medium Duty Motor Vehicle Assembly Plants subject to the requirements of Regulation 8, Rule 13.

118.4 Adhesives applied in Graphic Arts Operations subject to the requirements of Regulation 8, Rule 20.

118.5 Adhesives applied in Flat Wood Paneling Operations subject to the requirements of Regulation 8, Rule 23.

- 8-51-119 Exemption, Tire Repair:** The requirements of this Rule shall not apply to adhesive or sealant products used in tire repair provided the label conspicuously states "For Tire Repair Use Only."
- 8-51-120 Exemption, Prohibition of Sale:** The requirements of Section 8-51-307 shall not apply to the following:
- 120.1 Adhesive and sealant products shipped, supplied or sold to persons outside the District for use outside the District.
  - 120.2 Adhesive or sealant products sold to any person who complies with the requirements of Section 8-51-305.
  - 120.3 Any manufacturer of adhesive or sealant products, provided the manufacturer has provided the maximum VOC content and category information for the product and the product was not sold directly to a user or a sales outlet located in the District, or the product was sold to an independent distributor located in the District that is not a subsidiary of, or under the direct control of the manufacturer.
  - 120.4 The VOC limits for "Contact Bond Adhesives" in Section 8-51-301.4, provided, however, that no person shall sell or offer for sale any contact bond adhesive with a VOC content that exceeds 540 grams per liter.  
*(Adopted 11/16/94; Amended 1/7/98; 5/2/01)*
- 8-51-121 Exemption, ABS, CPVC, PVC and Plastic Welding Cement Primers:** Until August 1, 2001 the requirements of this rule shall not apply to adhesive primer used in conjunction with ABS, CPVC, PVC, and other plastic welding adhesive applications.  
*(Adopted 11/16/94; Amended 5/2/01)*
- 8-51-122 Deleted January 7, 1998**
- 8-51-123 Exemption, Small Container:** The requirements of this Rule shall not apply to any adhesive or sealant product sold in units of product, less packaging, that weigh one pound or less or contain 16 fluid ounces or less except that, effective August 1, 2001, this exemption shall not apply to plastic welding adhesive and plastic welding adhesive primer.  
*(Adopted 6/5/96; Amended 5/2/01)*
- 8-51-124 Exemption, Consumer Contact Bond Adhesive:** The requirements of Section 8-51-301.4 shall not apply to contact bond adhesives that are subject to the Consumer Product Safety Commission regulations in 16 C.F.R. Part 1302, that have a flash point greater than 20° F. as determined pursuant to those regulations, that are sold in packages that contain 3.79 liters (1 gallon) or less, and that are used at a home, a construction site, or at any location other than in a facility, as defined in Regulation 1.  
*(Adopted 6/5/96; Amended 1/7/98)*
- 8-51-125 Limited Exemption, Low Usage of Contact Bond Adhesive:** The requirements of Section 8-51-301.4 shall not apply to a facility that uses no more than 55 gallons of contact bond adhesive in a twelve month period, provided that the VOC content, as defined in Section 8-51-226, of the adhesive used does not exceed 540 grams per liter.  
*(Adopted 1/7/98; Amended 5/2/01)*
- 8-51-126 Limited Exemption, Facilities Using Contact Bond Adhesive Primarily for Special Substrates:** Where 80% or more of the annual contact bond adhesive use at a single facility meets the definition in Section 8-51-249 of "Contact Bond Adhesive - Special Substrates," the applicable limit in Section 8-51-301.4 shall apply to all contact bond adhesive usage at the facility.  
*(Adopted January 7, 1998)*
- 8-51-127 Exemption, Large Tire Retreading:** The requirements of Section 8-51-301 shall not apply to the use of tire retread adhesive in retreading off-the-road and industrial tires that are rated or used for non-highway service and have a minimum nominal rim diameter of 20 inches.  
*(Adopted January 7, 1998)*
- 8-51-128 Exemption, Self-Curing Adhesives and Sealants With Reactive Diluents:** The requirements of this rule shall not apply to self-curing adhesives and sealants with reactive diluents.  
*(Adopted January 7, 1998)*
- 8-51-200 DEFINITIONS**

- 8-51-201 Adhesive:** Any material which is applied for the primary purpose of bonding two surfaces together by surface attachment.  
*(Amended June 5, 1996)*
- 8-51-202 Adhesive Primer:** Any material which is applied to a substrate prior to the application of an adhesive to provide a bonding surface.
- 8-51-203 Adhesive Product:** For the purposes of this Rule, an adhesive product includes, but is not limited to, the following products: adhesives, glues, cements, mastic, adhesive primers.
- 8-51-204 Aerosol Adhesive:** An adhesive subject to the California Air Resources Board consumer products regulation found in Title 17 of the California Code of Regulations, beginning at Section 94507, that is packaged as an aerosol product in which the spray mechanism is permanently housed in a nonrefillable can designed for hand-held application without the need for ancillary hoses or spray equipment.  
*(Amended May 2, 2001)*
- 8-51-205 Aerospace Component:** For the purposes of this Rule, the fabricated part, assembly of parts or completed unit of any aircraft, helicopter, missile, or space vehicle, including passenger safety equipment.
- 8-51-206 Approved Emission Control System:** A system for reducing emissions of volatile organic compounds to the atmosphere, consisting of a control device and a collection system that meets the requirements of Regulation 2, Rule 1, and achieves the overall abatement efficiency specified in the applicable standards section at all times during operation of the equipment being controlled.  
*(Amended November 16, 1994)*
- 8-51-207 Architectural:** Stationary structures and their appurtenances, including mobile homes. Appurtenances to an architectural structure include but are not limited to: hand railings, cabinets, bathroom and kitchen fixtures, fences, rain gutters and down spouts, and windows.
- 8-51-208 Drywall Installation:** The installation of gypsum drywall to studs or solid surfaces.
- 8-51-209 Indoor Floor Covering Installation:** The installation of wood flooring, indoor carpet, resilient tile, vinyl tile, vinyl backed carpet, resilient sheet and roll, or artificial grass.  
*(Amended 11/16/94; 5/2/01)*
- 8-51-210 Deleted May 2, 2001**
- 8-51-211 Medical Equipment Manufacturing:** The manufacture of medical devices, such as, but not limited to, catheters, heart valves, blood cardioplegia machines, tracheostomy tubes, blood oxygenators, and cardiatory reservoirs.
- 8-51-212 Multipurpose Construction:** The installation or repair of various construction materials using adhesives, including but not limited to drywall, subfloor, panel, fiberglass reinforced plastic (FRP), ceiling tile, acoustical tile.  
*(Amended 11/16/94; 5/2/01)*
- 8-51-213 Panel Installation:** The installation of plywood, predecorated hardboard, tileboard, fiberglass reinforced plastic, and similar predecorated or nondecorated panels to studs or solid surfaces.
- 8-51-214 Plastic:** Synthetic materials chemically formed by the polymerization of organic (carbon-based) substances.
- 8-51-215 Deleted January 7, 1998**
- 8-51-216 Porous Material:** A material whose surface is permeable to liquids; such materials include but are not limited to foam, paper, corrugated paperboard, stone and wood.  
*(Amended November 16, 1994)*
- 8-51-217 Roadways:** Public streets, highways, and other surfaces, including but not limited to curbs, berms, driveways, and parking lots.
- 8-51-218 Sealant Products:** Any material with adhesive properties that is used primarily to fill, seal, waterproof, or weatherproof gaps or joints between two surfaces. Sealant products include sealant primers and caulk.
- 8-51-219 Single-Ply Roof Material Installation/Repair:** The installation or repair of prefabricated single-ply flexible roofing membrane that is field applied using just one layer of membrane material. The membrane itself may be manufactured from several layers of material. Installation includes the use of adhesives and adhesive primers provided the containers are labeled exclusively for such use.
- 8-51-220 Solvent:** Organic compounds which are used as diluents, thinners, dissolvers, viscosity reducers, cleaning agents, or for similar uses.

- 8-51-221 Deleted November 16, 1994**
- 8-51-222 Structural Glazing:** Use of an adhesive/sealant to adhere glass, ceramic, metal, stone, or composite panels to exterior building frames.
- 8-51-223 Subfloor Installation:** The installation of subflooring material, typically plywood, over flooring joists. Subflooring is covered by a finish surface material.
- 8-51-224 Tire Repair:** The repair of a hole, tear, fissure, or blemish in a tire casing by grinding and gouging, applying adhesive or sealant product and filling the hole or crevice with rubber.
- 8-51-225 Undersea-based Weapons Systems Components:** The fabricated part, assembly of parts, or completed units of any portion of the missile launching system used on undersea ships.
- 8-51-226 Volatile Organic Compound (VOC) Content:** All organic compounds (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 an adhesive or sealant product.
- 226.1 For the purposes of calculating the VOC content of an adhesive, sealant, or primer, water and the following compounds:
- acetone
  - parachlorobenzotrifluoride (PCBTF)
  - cyclic, branched, or linear completely methylated siloxanes (VMS)
  - difluoroethane (HFC-152a)
  - methyl acetate
- shall not be considered part of the product.
- 226.2 For the purposes of calculating the VOC content of low solids adhesives, sealants and primers, as defined in Section 8-51-234, any water shall be considered to be part of the product. The following compounds:
- acetone
  - parachlorobenzotrifluoride (PCBTF)
  - cyclic, branched, or linear completely methylated siloxanes (VMS)
  - methyl acetate
- shall not be considered part of the VOC content of the product.
- (Amended 6/2/93; 1/19/94; 11/16/94; 12/20/95, 1/7/98, 5/2/01; 7/17/02)*
- 8-51-227 Deleted November 16, 1994**
- 8-51-228 Wood Flooring Installation:** The installation of a wood floor surface, including but not limited to, parquet tiles, planks, or strip-wood.
- 8-51-229 ABS Welding:** The welding of acrylonitrile styrene (ABS) plastic using a plastic welding adhesive.
- (Adopted 11/16/94; Amended 5/2/01)*
- 8-51-230 Automotive Glass Primer:** Any adhesive primer that is applied to automotive glass prior to installation with an adhesive/sealant that improves adhesion to the pinch weld and blocks ultraviolet light.
- (Adopted 11/16/94)*
- 8-51-231 Computer Diskette Jacket Manufacturing:** The manufacture of computer diskettes where the fold-over flaps are glued to the body of a vinyl jacket.
- (Adopted November 16, 1994)*
- 8-51-232 CPVC Welding:** The welding of chlorinated polyvinyl chloride (CPVC) plastic using a plastic welding adhesive.
- (Adopted 11/16/94; Amended 5/2/01)*
- 8-51-233 Key System Operating Parameter:** An approved emission control system operating parameter, such as temperature, flow rate or pressure, that ensures operation of the emission control system within manufacturer specifications and compliance with the standard in Sections 8-51-305.
- (Adopted November 16, 1994)*
- 8-51-234 Low Solids Adhesive, Sealant, and Primer:** Any adhesive, sealant, or primer that contains less than 120 grams of solids per liter of material.
- (Adopted November 16, 1994)*
- 8-51-235 Marine Deck Sealant:** A sealant that is used to seal gaps on wooden decks of marine vessels.
- (Adopted November 16, 1994)*

- 8-51-236 Nonmembrane Roof Installation/Repair:** Any product that is intended for the installation or repair of roofs and that is not intended for the installation of prefabricated single-ply roofing membrane, including but not limited to plastic or asphalt roof cement, asphalt roof coatings, or cold application cement.  
*(Adopted November 16, 1994)*
- 8-51-237 Outdoor Floor Covering Installation:** The installation of floor covering, except ceramic tile, that is not in an enclosure and is exposed to ambient weather conditions during normal use.  
*(Adopted November 16, 1994)*
- 8-51-238 Rubber:** Any natural or man-made rubber substrate, including but not limited to styrene-butadiene (SBR), polychloroprene (neoprene), butyl rubber, nitrile rubber, chlorosulfonated polyethylene (CSM), urethane, and ethylene propylene diene terpolymer (EPDM).  
*(Adopted 11/16/94; Amended 5/2/01)*
- 8-51-239 Thin Metal Laminating:** The process of bonding multiple layers of metal to metal or metal to plastic in the production of electronic or magnetic components in which the thickness of the bond line(s) is less than 0.25 mils.  
*(Adopted 11/16/94; Amended 5/2/01)*
- 8-51-240 Tire Retreading:** The process of attaching a new tread to a tire through any tire retreading procedure, including but not limited to, mold curing, hot capping, and cold process.  
*(Adopted 11/16/94; Amended 5/2/01)*
- 8-51-241 Plastic Welding Adhesive:** Any adhesive, including ABS, CPVC, and PVC welding adhesive, which is used to dissolve the surface of plastic to form a bond between mating surfaces.  
*(Adopted 11/16/94; Amended 5/2/01)*
- 8-51-242 Contact Bond Adhesive:** An adhesive that forms an instantaneous, non-repositionable bond when substrates, on which the adhesive was applied and allowed to dry, are brought together using momentary pressure.  
*(Adopted June 5, 1996)*
- 8-51-243 Waterproof Resorcinol Glue:** A two-part, resorcinol-resin-based adhesive designed for applications where the bond line must be resistant to conditions of continuous immersion in fresh or salt water.  
*(Adopted June 5, 1996)*
- 8-51-244 Pavement Marking Tape Primer:** An adhesive primer designed for application to pavement prior to the application of adhesive-backed pavement marking tape.  
*(Adopted June 5, 1996)*
- 8-51-245 Deleted May 2, 2001**
- 8-51-246 Deleted May 2, 2001**
- 8-51-247 Self-Curing Adhesives and Sealants with Reactive Diluents:** A cyanoacrylate or silicone-based adhesive or sealant with a reactive diluent content of at least 95% by weight.  
*(Adopted January 7, 1998)*
- 8-51-248 Reactive Diluent:** A liquid reactant that is part of an adhesive or sealant prior to cure and that reacts to become part of the solid adhesive or sealant during cure.  
*(Adopted January 7, 1998)*
- 8-51-249 Contact Bond Adhesive - Special Substrates:** A contact bond adhesive that is used for the bonding of nonporous substrates to each other; the bonding of decorative laminate in postforming operations; or the bonding of any substrate to one of the following substrates: metal, rubber, flexible vinyl, rigid plastic, wood veneer not exceeding 1/16" in thickness, or melamine-covered board.  
*(Adopted 1/7/98; Amended 5/2/01)*
- 8-51-250 Ceramic Tile Installation:** The installation of ceramic tiles.  
*(Adopted May 2, 2001)*
- 8-51-251 Cove Base Installation:** The installation of cove base (or wall base), which is generally made of vinyl or rubber, on a wall or vertical surface at floor level.  
*(Adopted May 2, 2001)*
- 8-51-252 PVC Welding:** The welding of polyvinyl chloride (PVC) plastic using a plastic welding adhesive.  
*(Adopted May 2, 2001)*
- 8-51-253 Perimeter Bonded Sheet Vinyl Flooring Installation:** The installation of sheet flooring with vinyl backing onto a nonporous substrate using an adhesive designed to



be applied only to a strip of up to four inches wide around the perimeter of the sheet flooring.

*(Adopted May 2, 2001)*

**8-51-254 Top and Trim Installation:** The installation of automotive, marine, or aeronautical trim, including, but not limited to, headliners, vinyl tops, vinyl trim, dash covering, door covering, floor covering, panel covering, and upholstery.

*(Adopted May 2, 2001)*

**8-51-255 Immersible Product Manufacturing:** The manufacture of products intended for immersion in liquids, including wetsuits, rubber fuel bladders, inflatable boats, and life preservers.

*(Adopted May 2, 2001)*

**8-51-256 Rubber Vulcanization Bonding:** The bonding of rubber to metal, rubber, or polyester or nylon fabrics during one or more of the following vulcanization processes: (1) molded vulcanization - the application of heat and pressure to uncured rubber in a mold; (2) sheet-applied vulcanization - the application of heat after rubber stock sheets have been adhered to the walls of tanks, tankers, elbow joints, protective earthquake building pads, or rail cars; or the application of heat after one or more layers of rubber stock sheets have been built up to form a rubber product; (3) cold vulcanization - the chemical reaction of an adhesive with rubber stock sheets that are adhered to earthmoving equipment, other high impact/abrasion devices, or industrial belting devices, without the application of heat or pressure. Rubber vulcanization bonding does not include tire retreading.

*(Adopted May 2, 2001)*

**8-51-257 Pre-formed Rubber Product:** Any rubber product that has undergone a vulcanization process and is in its final state for further use and is not intended to be further vulcanized.

*(Adopted May 2, 2001)*

**8-51-300 STANDARDS**

**8-51-301 Adhesive Product, Application Limits:** Except as provided in Section 8-51-305, a person shall not use in the following applications any adhesive product with a VOC content, as defined in Section 8-51-226, that exceeds the following VOC limits (expressed as grams of VOC per liter):

<b>301.1 Architectural:</b>	<b>Effective 8/1/01</b>
Indoor Floor Covering Installation	150
Multipurpose Construction	200
Nonmembrane Roof Installation/Repair	300
Outdoor Floor Covering Installation	250
Single-Ply Roof Material Installation/Repair	250
Structural Glazing	100
Ceramic Tile Installation	200      130
Cove Base Installation	200      150
Perimeter Bonded Sheet Vinyl Flooring Installation	660
<b>301.2 Specialty:</b>	
Computer Diskette Jacket Manufacturing	850
ABS Welding	400
CPVC Welding	490
PVC Welding	510
Other Plastic Welding	500
Thin Metal Laminating	780
Tire Retread	100
Rubber Vulcanization Bonding	850
Waterproof Resorcinol Glue	170
Immersible Product Manufacturing	650
Top and Trim Installation	540

<b>301.3 Adhesive Primers:</b>		<b>Effective 8/1/01</b>
Automotive Glass Primer	700	
Pavement Marking Tape Primer	550	150
Plastic Welding Primer	-	650
Other	250	

<b>301.4 Contact Bond Adhesive:</b>	
Contact Bond Adhesive	250
Contact Bond Adhesive - Special Substrates	400

*(Amended 11/16/94; 6/5/96; 1/7/98; 5/2/01)*

**8-51-302 Adhesive Product, Substrate Limits:** Except as provided in Sections 8-51-301 and 305, a person shall not use with the following substrates or substrate combinations any adhesive product with a VOC content, as defined in Section 8-51-226, that exceeds the following limits (expressed as grams of VOC per liter):

		<b>Effective 8/1/01</b>
Metal	30	
Porous Materials	150	120
Wood	150	120
Pre-formed Rubber Products	650	250
All Other Substrates	250	

If an adhesive product is used to bond two different substrates from the table above, the limit for the substrate with the highest VOC content shall apply.

*(Amended 11/16/94; 6/5/96; 1/7/98; 5/2/01)*

**8-51-303 Deleted May 2, 2001**

**8-51-304 Sealant Product Limits:** Except as provided in Section 8-51-305, a person shall not use in the following applications any sealant product with a VOC content, as defined in Section 8-51-226, that exceeds the following limits (expressed as grams of VOC per liter):

<b>Sealant:</b>	
Architectural	250
Marine Deck	760
Roadways	250
Single Ply Roof Material Installation/Repair	450
Nonmembrane Roof Installation/Repair	300
Other	420

<b>Sealant Primer:</b>	
Architectural - Nonporous	250
Architectural - Porous	775
Other	750

*(Amended 11/16/94; 6/5/96; 1/7/98; 5/2/01)*

**8-51-305 Approved Emission Control System:** The limits of Section 8-51-301, 302 or 304 shall not apply when emissions to the atmosphere are controlled to an equivalent level by an APCO approved emission control system that has an overall abatement efficiency of at least 85 percent. Where incineration is used to control emissions, at least 90 percent of the organic carbon shall be oxidized to carbon dioxide.

**8-51-306 Prohibition of Specification:** No person shall require for use or specify the application of an adhesive or sealant product subject to this Rule if such use or application results in a violation of any of the standards of this Rule. The prohibition of specification shall apply to all written or oral contracts under the terms of which any adhesive product is to be applied at any physical location within the District.

- 8-51-307 Prohibition of Sale:** Except as provided in Section 8-51-120, no person shall sell, or offer for sale any adhesive or sealant product that does not meet the VOC limits as specified in Sections 8-51-301 and 304.  
*(Adopted 11/16/94; Amended 1/7/98; 5/2/01)*
- 8-51-308 Limits for Pressurized Containers:** Adhesive and sealant products that are not aerosol adhesives as defined in Section 8-51-204 but are supplied in pressurized containers from which adhesive or sealant is expelled by a propellant are subject to the VOC limits in Sections 8-51-301, 302, and 304 of this Rule.  
*(Adopted May 2, 2001)*
- 8-51-320 Solvent Evaporative Loss Minimization:** The requirements of this section shall apply to any person using organic solvent for surface preparation and cleanup or to any person mixing, using, or disposing of adhesive or sealant product containing organic solvent.
- 320.1 A person shall use closed containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
- 320.2 A person shall store fresh or spent solvent in closed containers.
- 320.3 A person shall not use organic compounds for the cleanup of mixing, storage, or spray equipment unless equipment for collecting the cleaning compounds and minimizing their evaporation to the atmosphere is used.
- 320.4 A person shall not leave containers of adhesive product, sealant product, or thinner open to the atmosphere when not in use.
- 8-51-400 ADMINISTRATIVE REQUIREMENTS**
- 8-51-401 Date of Manufacture:** Containers for all adhesive and sealant products subject to this Rule shall display the date of manufacture of the contents or a code indicating the date of manufacture. If a code is used, the manufacturers of such products shall file with the APCO an explanation of each code.
- 8-51-402 Labeling Requirement:** Each container of adhesive or sealant product subject to this Rule and manufactured after July 1, 1994, shall display the VOC content, as defined in Section 8-51-226, of the adhesive or sealant product as supplied.  
*(Amended 11/16/94; 5/2/01)*
- 8-51-403 Deleted January 7, 1998**
- 8-51-404 Deleted November 16, 1994**
- 8-51-500 MONITORING AND RECORDS**
- 8-51-501 Stationary Source, Recordkeeping Requirement:** Any person operating a source of adhesive or sealant emissions subject to Regulation 2, Rule 1 shall:
- 501.1 Maintain a current list of adhesive or sealant products in use which provides all of the data necessary to evaluate compliance, including the following, as applicable:
- Identification of each product by manufacturer, product name, and manufacturer's product number.
  - VOC content of each product as supplied.
  - Mix ratio of components in the product used, and final VOC content as applied.
  - Identification of specialty limit category and/or exemption that applies to each product.
- 501.2 Except as provided in Section 8-51-501.3, record facility-wide usage on a monthly basis for each adhesive or sealant product applied.
- 501.3 For a facility that emits 330 pounds per month or more of total VOC emissions from the use of adhesive and sealant products subject to this Rule, maintain, in addition to the records required by Section 8-51-501.2, daily records of the use, pursuant to Section 8-51-114, of any products that do not comply with the VOC limits in the Rule.
- 501.4 Retain and have all records available for inspection by the APCO for the previous 24-month period, unless a longer period is specified in an applicable permit.

(Amended 11/16/94; 6/5/96; 1/7/98; 5/2/01)

**8-51-502 Alternative Recordkeeping Requirements:** In lieu of meeting the monthly recordkeeping requirements of Sections 8-51-501.2, a person may use an alternative recordkeeping plan under the following circumstances:

- 502.1 The plan is for a government or university research facility that:
- a. For activities not exempt pursuant to Section 8-51-117, uses only adhesives and sealants that comply with the VOC limits in the Rule;
  - b. Uses adhesives or sealants in five or more buildings on the facility site; and
  - c. Tracks their distribution and use through a centralized information system.
- 502.2. The person meets each of the following requirements:
- a. A written petition that includes a description of the facility, a description of the facility's centralized information system, a list of adhesive and sealant products used by the facility, and an estimate of the monthly usage for each adhesive and sealant product shall be submitted to and approved by the APCO prior to implementing the plan.
  - b. The monthly total quantity of each adhesive and sealant product purchased or acquired shall be recorded.
  - c. The annual total usage of each adhesive and sealant product shall be reported at the time the facility's permit to operate is renewed.
- 502.3. A violation of Sections 8-51-301, 302, or 304 within the annual reporting period allowed by Section 8-51-502.2 shall be presumed to be a violation for each day of the reporting period up to the day the violation is discovered, but a person may rebut this presumption by presenting evidence, such as usage records, purchase orders, work orders, contracts, or other documents which demonstrate that the violation did not occur on each day of the reporting period.

(Adopted May 2, 2001)

**8-51-503 Approved Emission Control System, Recordkeeping Requirement:** Any person that installs an approved emission control system, subject to Sections 8-51-305 shall:

- 502.1 Record on a daily basis the amount of adhesive or sealant product, and solvent used.
- 502.2 Record on a daily basis applicable key system operating parameter(s).
- 502.3 Retain and have such records available for inspection by the APCO for the previous 24-month period.

(Amended 11/16/94; Renumbered 5/2/01)

**8-51-504 Burden of Proof:** Any facility claiming the low usage exemption pursuant to Sections 8-51-114 or 125, the low VOC product exemption pursuant to Section 8-51-115, or the substrate exemption pursuant to Section 8-51-126 must have information available, such as purchase orders, material safety data sheets, work orders, or contracts, that would allow the APCO to verify eligibility for the exemption.

(Amended 1/7/98; Renumbered 5/2/01)

## **8-51-600 MANUAL OF PROCEDURES**

**8-51-601 Analysis of Samples:** The VOC content of adhesive and sealant products shall be analyzed for compliance with the limits specified in Sections 8-51-115, 125, 126, 301, 302, and 304 using Manual of Procedures, Volume III, Method 21 or 22. The VOC content of low solids adhesive, sealant products or primers as defined in Section 8-51-234 shall be analyzed using Manual of Procedures, Volume III, Method 31. Samples containing parachlorobenzotrifluoride shall be analyzed using Manual of Procedures, Volume III, Method 41. Samples containing cyclic, branched, or linear completely methylated siloxanes shall be analyzed using Manual of Procedures, Volume III, Laboratory Method 43: "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials." Samples containing methyl acetate shall be analyzed using ASTM Method D-6133-00: "Standard Test Method for Acetone, PCBTF, Methyl Acetate or t-Butyl Acetate Content of Solvent-Reducible and Water Reducible Paints, Coatings, Resins, and Raw Materials by Direct Injection Into a Gas Chromatograph."

*(Amended 1/19/94; 6/5/96; 1/7/98; 5/2/01; 7/17/02)*

**8-51-602 Determination of Control and Collection Efficiency:** The control and capture efficiency of an approved emission control system as referenced in Section 8-51-305 shall be measured 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 25 A is used, capture efficiency shall be determined as prescribed in EPA's Guidelines for Determining Capture Efficiency, dated January 9, 1995. For the purpose of determining abatement device efficiency, any acetone, PCBTF, or VMS shall be included as volatile organic compounds. 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.

*(Amended 11/16/94; 6/5/96; 1/7/98)*

**8-51-603 Analysis of Plastic Welding Adhesives:** The VOC content of ABS, CPVC, PVC or other plastic welding adhesives shall be analyzed for compliance with the limits specified in Section 8-51-301 using Manual of Procedures, Volume III, Method 40.

*(Adopted 6/5/96; Amended 1/7/98; 5/2/01)*