

Public Webinar for Proposed Updates to Method 310

Determination of Volatile Organic Compounds (VOC) in Consumer Products and Reactive Organic Compounds (ROC) in Aerosol Coating Products

July 2, 2020
9:00am - 11:00am





Today's Meeting

Webinar Registration:

<https://attendee.gotowebinar.com/register/563117486829125131>

To participate by phone:

UNITED STATES: +1 (631) 992-3221

AUDIO ACCESS CODE: 639-984-759



Presentation Outline

- Proposed Method 310 updates
 - Q & A
- Proposed revisions to the Consumer Products Regulations
 - Q & A
- This presentation is in conjunction with materials provided per this Public Workgroup meeting.

For Webinar attendees: Please type in questions or comments using the Questions tab, on the side bar.



Method 310

- SECTION 1 - APPLICABILITY
- SECTION 2 - REFERENCE METHODS
- SECTION 3 - TESTING TO DETERMINE VOC
- SECTION 4 - CALCULATION OF VOC CONTENT
- SECTION 5 - TESTING TO DETERMINE ROC
- SECTION 6 - CALCULATION OF ROC CONTENT
- SECTION 8 - ALTERNATE TEST METHODS
- APPENDIX A



Method 310:

SECTION 1 - APPLICABILITY

- Remove the phrase “the percent by weight of”. This will allow for consideration of all Consumer Products, as we plan for the future.
- Update language to state what M310 specifically determines.
- Include definitions for chemical “compound” and chemical “mixture”, to harmonize the use of scientifically accepted descriptor terminology.



Method 310:

SECTION 2 - REFERENCE METHODS

- Revise title from **REFERENCE METHODS** to **REFERENCES**.
- References are then subdivided into two parts: **Reference Methods** and **Literature References**.
- Reference Methods will be listed alpha-numerically.



Method 310:

SECTION 3 - TESTING TO DETERMINE VOC

- Clarify language per the description of Consumer Products analysis.
- Revisions in the LVP-VOC section provide clarity and will reflect citations in the CP Regulation.
 - These changes will reflect the corresponding language in the CP Regulation and will be outlined in the second part of this presentation.



Method 310:

SECTION 4 - CALCULATION OF VOC CONTENT

- Overall revisions to language and equations are for clarity and consistency
- New section to provide specific language and equations for Article 1 regulated products (antiperspirant/deodorant).
- Changes do not impact existing equations.



Method 310:

SECTION 5 - TESTING TO DETERMINE ROC

- MLD has completed method development for ROC determination. Changes will provide a clear and uniform description of this process.



Method 310:

SECTION 6 - CALCULATION OF PWMIR USING ROC CONTENT

- New section which specifies the equation where the ROC content of the product is used to calculate the PWMIR



Method 310:

SECTION 8 - ALTERNATE TEST METHODS

- Revise Section title from “ALTERNATE TEST METHODS” to “ALTERNATIVE TEST METHODS”.
- Revisions eliminate superfluous language.



Method 310: APPENDIX A

- Revise title from “APPARATUS AND MATERIALS” to “EQUIPMENT AND SUPPLIES”.



Discussion and Questions

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Consumer Products Regulations

- Universal changes to Articles 1 through 4
- Article 2 - Consumer Products
- Article 3 - Aerosol Coating Products
- Article 4 - Alternative Control Plan



Consumer Products Regulations: Proposed Revisions for Articles 1 through 4

- Ensure significant figure consistency in CP Regulations.

Consumer Products Regulations: Proposed Revisions for Article 2

- Revise language in CP Regulation Test Method section to be consistent with M310 and provide clarity.

- 3.5 Determination of LVP-VOC content, as that term is defined in the Consumer Products Regulation, Article 2, section 94508. Effective January 1, 2015, this section does not apply to non-aerosol “Multi-purpose Solvent” and “Paint Thinner” products sold, supplied, offered for sale, or manufactured for sale in the South Coast Air Quality Management District.
 - 3.5.1 Formulation data. If the vapor pressure and/or boiling point are unknown, the following ASTM methods, which are incorporated by reference herein, may be used to determine LVP-VOC content:
 - 3.5.1.1 Testing to determine vapor pressure may be performed using one of the following ASTM methods: ASTM D2879-97, ASTM E1719-97, and ASTM E1782-08.
 - 3.5.1.2 Testing to determine boiling point may be performed using one of the following ASTM methods: ASTM D86-01, ASTM D850-00, ASTM D1078-01, and ASTM D2887-01.
 - 3.5.2 LVP-VOC determination. The Executive Officer may perform boiling point analysis. The Executive Officer will use the nearest 1 percent distillation cut that is greater than 216°C to determine the percentage qualifying as an LVP-VOC.

Consumer Products Regulations: Proposed Revisions for Article 3

- Insert the following method citations into the Test Methods and Compliance Verification Section.

Metal Content. The metal content of metallic aerosol coating products shall be determined by ASTM D5381-93, Standard Guide for X-Ray Fluorescence (XRF) Spectroscopy of Pigments and Extenders (Reapproved 2009), which is incorporated by reference herein.

Specular Gloss. Specular gloss of flat and non-flat coatings shall be determined by ASTM D523-08, Standard Test Method for Specular Gloss (June 1, 2008), which is incorporated by reference herein.

Acid Content. The acid content of rust converters shall be determined by ASTM D1613-06, Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products (April 1, 2006), which is incorporated by reference herein.

Consumer Products Regulations: Proposed Revision for Article 4

- Clarifying for consistency that the definition for “LVP” or “LVP Compound” shall have the same meaning as “LVP-VOC”.



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Special Analysis Section Contacts

- **Michael Werst, Branch Chief**
 - Email: michael.werst@arb.ca.gov
 - Phone: (916) 322-6086
- **Keith Kennedy, Section Manager**
 - Email: keith.kennedy@arb.ca.gov
 - Phone: (916) 322-2496
- **Wendy Howard, Staff**
 - Email: wendy.howard@arb.ca.gov
 - Phone: (916) 322-2382
- **Anna Desai, Staff**
 - Email: anna.desai@arb.ca.gov
 - Phone: (916) 445-9335