Proposed Amended Rule 1168
Adhesive and Sealant Applications

Working Group Meeting
June 25, 2013
Agenda

- Introductions
- Background
- Survey
- Rule Concepts
- Tentative Schedule
Background

- 2012 AQMP Control Measure CTS-02
- Rule 1168 last amended in 2005
  - Addressed technology assessments for select uses
  - Top & Trim
  - PVC and CPVC welding
  - Some methylene chloride usage
- Most current limits established in 2000
- Previous VOC emissions inventory estimated at 7.8 tons per day (tpd) from 1993 data
- Current inventory of 1.2 tpd represents ~ 85% reduction
Survey

- Update inventory and ensure appropriate prioritization of VOC reduction efforts
- Applicable to manufactures and distributors of adhesives and sealants sold in SCAQMD

Examples of applicable products

<table>
<thead>
<tr>
<th>Products</th>
<th>Adhesives</th>
<th>Adhesive primers</th>
<th>Adhesive promoters</th>
<th>Spray foams</th>
<th>Pipe dopes</th>
<th>Insulating foams</th>
<th>Sealants</th>
<th>Sealant primers</th>
<th>Plastic welding products</th>
<th>Caulks</th>
</tr>
</thead>
</table>

- 2012 product and sales information
  - Sales information to be considered confidential if requested
  - Data released only in aggregate form
### Survey

#### Administrative Information

- **Company Name**
- **Address**
- **Company Contact**
  - Position
  - Phone number
  - E-mail address

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#### Table: Product Information

<table>
<thead>
<tr>
<th>Name of Product Manufacturer</th>
<th>Product Name and Code</th>
<th>003 VOC Category</th>
<th>VOC Material</th>
<th>VOC Equivalent</th>
<th>003 VOC Material</th>
<th>003 VOC Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*Rule 003 Category: See drop-down menu and instructions. For products with more than one applicable category, select most commonly used category. If no categories applicable, select "Other". For products greater than $5,000 by weight, check box to process the data as confidential per Section 31.9(a)(6) of the California Public Records Act.*
## Survey Products

<table>
<thead>
<tr>
<th>Name of product manufacturer (AS LISTED ON THE LABEL)</th>
<th>Product Name and Code</th>
<th>Rule 1168 Category (Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sticky Inc Hold It (S123)</td>
<td></td>
<td>Architectural Adhesive – Multipurpose Construction</td>
</tr>
<tr>
<td>Sticky Inc Bond Strong (S124a)</td>
<td></td>
<td>Miscellaneous Adhesive – Contact Adhesive</td>
</tr>
<tr>
<td>Sticky Inc PermaBond (S456)</td>
<td></td>
<td>Sealant - Other</td>
</tr>
</tbody>
</table>

Rule 1168 Category from drop down menu and survey instructions. **Optional**
# Survey

## VOC Content

<table>
<thead>
<tr>
<th>VOC Regulatory (g/L)</th>
<th>VOC Material (g/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>47</td>
<td>47</td>
</tr>
<tr>
<td>79</td>
<td>79</td>
</tr>
<tr>
<td>121</td>
<td>35</td>
</tr>
</tbody>
</table>

## Survey
### Exempt Solvents

<table>
<thead>
<tr>
<th>Contains acetone? Indicate with a “Y” if yes</th>
<th>Contains tert butyl acetate (TBAC)? Indicate with a “Y” if yes</th>
<th>Contains dimethyl carbonate? Indicate with a “Y” if yes</th>
<th>Contains another exempt solvent? Indicate with a “Y” if yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

In quantities greater than 0.1 percent by weight
Survey
Sales

Quantity Sold in 2012 (gallons)

Confidential?

26,200
1,343
27

Mark checkbox to make your sales date confidential
Rule Concepts

- Conform rule to Control Techniques Guidelines (CTG)
  - Several categories (Reinforced Plastic Composite, Waterproof Rescorcinol Glue, Single-Ply Roof Membrane Adhesive Primer, Other Adhesive Primer) have lower VOC content limits in CTG
  - Add provisions for mixing and storage including prohibited storage of non-compliant adhesives and sealants

- Clarify and simplify rule
  - Eliminate or revise unnecessary definitions
  - Define primer as “film-forming” and inclusive of bonding and promoting
  - Clarify requirements and applicability associated with other rules
Rule Concepts (Cont.)

- Lower or add VOC content limits
  - Architectural Adhesives
  - Architectural Sealants
  - Foams
    - Sealants – filling cracks/gaps/voids
    - Insulating – large cavities
  - Fillers
  - Retain individual category limits @ 250 g/L, although redundant with general default category limit, in order to provide clarification

- Delineate and address consumer products
  - Define as <= 16oz / 1 lb and subject to CARB rule
  - Limit aerosol exemption to 16 oz/day
  - Remove exemption for stationary sources when using adhesive and sealant consumer products
Rule Concepts (Cont.)

- Include labeling requirement similar to San Joaquin Valley ACPD
- Consider new VOC test method and Material VOC limits which may provide opportunity for further emission reductions
- Review exemptions
- Prohibit Group II exempt solvents, including all uses of methylene chloride
- Require post rule sales surveys to determine rule effectiveness
Tentative Schedule

- Working Group meetings
- Public Workshop Fall 2013
- Report to Stationary Source Committee Late 2013
- Final Hearing Late 2013

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