Coating System Line Products List

Group	I Vehicles	Only
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Coating Manufacturer				
Coating Product Line Name				
Facility Name	Address			

Surface Cleaning and Priming

Product (Name / Code)	Reducer (Name / Code)	Hardener / Activator (Name / Code)	Mixing Ratio	VOC Content (as applied, excluding water and exempt compounds) 1	Rule 234 VOC Content Limit ¹
Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6
	Surf	ace Cleaners			
Tar, Oil, and Grease Remover	T	T.		T	
					780 g/L (6.5 lb/gal)
Metal Surface Cleaner, Hand Held Sp	ray Refillable Bottle				
					780 g/L (6.5 lb/gal)
Metal Surface Cleaner, Hand Wipe					
					72 g/L (0.6 lb/gal)
Plastic Parts Cleaner					
					780 g/L (6.5 lb/gal)
	Prec	oat / Priming			
Pretreatment Wash Primer (min. 5%					
					780 g/L (6.5 lb/gal)
Precoat (bare metal deactivator)					
					600 g/L (5.0 lb/gal)
Temporary Protective Coating (protective Coati	ct from overspray)	1			
					60 g/L (0.5 lb/gal)
Primer / Primer Surfacer					
					250 g/L (2.1 lb/gal)
Primer Sealer					
- IIIII Godioi					420 g/L (3.5 lb/gal)

^{1 :} As applied, excluding water and exempt compounds

Coating System Line Products List

Group I Vehicles Only

Topcoating

Primary Product	Reducer	Hardener / Activator	Additives	Mixing	VOC Content ¹	Rule 234	
(Name / Code)	(Name / Code)	(Name / Code)	(Name / Code)	Ratio	Content	VOC Content Limit ¹	
Col. 1	Col. 2	Col. 3	Col. 3a	Col. 4	Col. 5	Col. 6	
		Single-stage To	pcoating				
Solid Color Topcoat			ı				
						420 g/L	
						(3.5 lb/gal)	
Clear Topcoat							
						420 g/L	
						(3.5 lb/gal)	
Metallic Topcoat							
•						E20 a/l	
						520 g/L (4.3 lb/gal)	
						(4.5 15/941)	
		Multi-stage Top	coating				
Groundcoat	T						
Basecoat							
Bascosat							
Midcoat							
Ol							
Clear	T	T	<u> </u>				
Overall Multi-stage Coating System ²				540 g/L (4.5 lb/gal)			
		Speciality Car	otina ³			(4.5 lb/gal)	
Speciality Coating ³ Speciality (Additives)							
openanty (Additives)							
						840 g/L	
						(7.0 lb/gal)	

- 1 : As applied, excluding water and exempt compounds.
- 2 : See the last page of the attached instructions for how to calculate the overall multi-stage coating system VOC content.
- 3 : Speciality coatings are unique coatings containing additives. They include adhesion promoters, uniform finish blenders, elastomeric materials, gloss flatteners, bright metal trim repair, and anti-glare/safety coatings.

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Certifying Na	ame and Title		Phone N	No.	()	-	
I do hereby certify that information listed is a true representation of the products used at this site and are accurate and compliant with PCAPCD Rule 234 Auto Refinishing Operations								
Signature			Date					

Instructions for Completing the Coating System Line Products List

Include the following information for each separate product used in the Coating System Product Line. This list is required for all Automotive Refinishing Operations under Placer County Air Pollution District Rule 234, Section 501. Note that:

- 1. The list must be prepared by <u>all</u> Automotive Refinishing Operations, regardless of size (VOC product usage).
- 2. The list applies to refinishing operations for "Group I" vehicles, which include passenger cars, light and medium duty trucks and vans, motorcycles, and heavy duty truck cabs and chassis.
- 3. The first form is used for Surface Cleaning and Priming products; the second form for Topcoating products.
- 4. Information contained in the forms must be legible.
- 5. <u>All VOC-containing products kept on-site that are used in the automotive refinishing process (used and stored) must be identified in either this "Coating System Products Line List", or alternatively in the companion "Miscellaneous VOC-Containing Products List".</u>
- 6. The list needs to be updated on an on-going basis to reflect current coating product use. The list must account for all new or modified products.
- 7. A copy of the list with currently used and stored products must be kept on-site in a readily accessible location.
- 8. Information must be based on the most current technical data product information sheet.
- 9. A copy of every different version of the list must be retained in on-site records for the previous 3 year period.
- 10. VOC-containing aerosols that do not contain pigments or resins must be included.

The form may be completed either by-hand or electronically. The file with the name "PCAPCD_Rule_234_Coating_List.pdf" is in "Portable Document Format" and may be opened and printed with Adobe Reader©, a copy of which is available at no cost at http://www.adobe.com/products/acrobat/readstep2.html. The printed copy may then be completed by-hand.

Alternatively, the file with the name "PCAPCD_Rule_234_Coating_List.doc" is created with Microsoft Word©, and may be filled out electronically. To fill out the form, open the file, click in the shaded areas of the form, and type the entry directly into the shaded area. The tab button, the keyboard arrows, or a click of the mouse can be used to move within the different form boxes. Extra rows may be added to the table as needed by selecting the menu option under "Tools / unprotect document"; then click in the row you would like rows to be added to below, and then select the menu option under "Table / Insert / Rows Below".

- Col. 1 **Product Name / Code** For each coating system line product, enter the name / code as referred to on the container label. Enter the product under the most applicable subcategory for example, plastic part cleaner, tar and oil remover, metallic topcoat, etc.
- Col. 2 Reducer Name / Code For reducers that are added to the product, enter as referred to on the container label. Enter "None" if the primary product is used as packaged.
- Col. 3 <u>Hardener / Activator Name / Code</u> For hardener / activators that are mixed with the product, enter as referred to on the container label. Enter "None" if the primary product is used as packaged.
- Col. 3a <u>Additives Name / Code</u> For additives, enter as referred to on the container label. Enter "None" if the product is used as packaged. This column of information is not included in the Surface Cleaning and Priming products form because additives are not typically used for the surface cleaning and priming products.
- Col. 4 <u>Mixing Ratio</u> Enter the mixing ratio determined as the amount (typically by volume) of any reducer, hardener/activator, or additives that are required to be mixed with the packaged product. For example, if 3 gallons of water are added to 1 gallon of cleaner, the mixing ratio would be 1:3. If the product is used as packaged, enter "None".
- Col. 5 <u>VOC Content</u> Enter the final product VOC Content <u>as applied, excluding water and exempt solvents</u>. The VOC Content must be determined from the following:

- Distributor or manufacturer "technical data" product information sheet. A written copy of the distributor or manufacturer technical data sheet that documents the VOC Content must be included with these forms. The forms must be kept on-site and readily accessible.
- Analysis of samples of the coating using EPA Method 24. This involves sending a sample of the coating
 to a certified laboratory, who will use Method 24 ("Determination of the Volatile Matter Content, Water
 Content, Density, Volume Solids, and Weight Solids of Surface Coatings") to determine the VOC content.
- Col. 6 PCAPCD VOC Content Limit The Placer County Air Pollution Control District VOC Content limits are provided for comparison with the VOC Content of coatings used on-site provided in previous Column 5. The VOC Content of each coating must be less than the applicable District limit. Please note that the District limits are based on the VOC content as applied, excluding water and exempt compounds.

Calculation of VOC Content for Multi-stage Topcoating Systems

The overall VOC Content for multi-stage topcoating systems is determined as, depending on the coating system arrangement:

2-stage (basecoat - clearcoat) system:

$$VOC_{Total} = \frac{VOC_{BC} + 2*VOC_{CC}}{3}$$

3-stage (basecoat - midcoat - clearcoat) system:

$$VOC_{Total} = \frac{VOC_{BC} + VOC_{MC} + 2*VOC_{CC}}{4}$$

4-stage (groundcoat - basecoat - midcoat - clearcoat) system:

$$VOC_{Total} = \frac{VOC_{GC} + VOC_{BC} + VOC_{MC} + 2*VOC_{CC}}{5}$$

where:

VOC_{Total}	Overall VOC Content of multi-stage system, used to determine compliance
VOC_{GC}	VOC Content of groundcoat or primer sealer
VOC_{BC}	VOC Content of basecoat
VOC_{MC}	VOC Content of midcoat
VOC_{CC}	VOC Content of clearcoat

Recommendations to Aid in District Inspections

- Operating personnel should know where the records are kept.
- The paint room inventory should only contain products used in the "Coating Product Line List", or other products on the "Miscellaneous VOC-Containing Products List".
- Any unnecessary products should be recycled or returned to the distributor, and not stored on-site.
- The shop should be kept clean and well-organized.