Table 1 to Subpart WWWW of Part 63Equations to Calculate Organic HAP Emissions Factors for Specific Open Molding and Centrifugal Casting Process		
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If your operation And you use type is a new or existing	And you use	With	rganic HAP Factor (EF) for material	Use this organic HAP emissions Factor (EF) Equation for materials with 33 percent or more organic HAP
			less than 33 percent organic HAP (19 percent organic HAP for nonatomized gel coat) 234	(19 percent for nonatomized gel coat) 234
 open molding operation 	a. manual resin application	i. nonvapor-suppressed resin	EF = 0.126 x %HAP x 2000	EF = ((0.286 x %HAP)-0.0529) x 2000
		ii. vapor-suppressed resin	<pre>EF = 0.126 x %HAP x 2000 x (1-(0.5 x VSE factor))</pre>	EF = ((0.286 x %HAP)-0.0529) x 2000 x (1-(0.5 x VSE factor))
		<pre>iii. vacuum bagging/closed- mold curing with roll out</pre>	EF = 0.126 x %HAP x 2000 x 0.8	EF = ((0.286 x %HAP)-0.0529) x 2000 x 0.8
		<pre>iv. vacuum bagging/closed- mold curing without roll- out</pre>	EF = (0.126 x %HAP x 2000 x 0.5	EF = ((0.286 x %HAP)-0.0529) x 2000 x 0.5
	b. atomized mechanical resin application	i. nonvapor-suppressed resin	EF = 0.169 x %HAP x 2000	EF = ((0.714 x %HAP)-0.18) x 2000
		ii. vapor-suppressed resin	<pre>EF = 0.169 x %HAP x 2000 x (1-(0.45 x VSE factor))</pre>	EF = ((0.714 x %HAP)-0.18) x 2000 x (1-(0.45 x VSE factor))
		<pre>iii. vacuum bagging/closed- mold curing with roll-out</pre>	EF = 0.169 x %HAP x 2000 x 0.85	EF = ((0.714 x %HAP)-0.18) x 2000 x 0.85
		<pre>iv. vacuum bagging/closed-mold curing without roll-out</pre>	EF = 0.169 x %HAP x 2000 x 0.55	EF = ((0.714 x %HAP)-0.18) x 2000 x 0.55
	 c. nonatomized mechanical resin application 	i. nonvapor-suppressed resin	EF = 0.107 × %HAP × 2000	EF = ((0.157 x %HAP)-0.0165) x 2000
		ii. vapor-suppressed resin	<pre>EF = 0.107 x %HAP x 2000 x (1-(0.45 x VSE factor))</pre>	<pre>EF = ((0.157 x %HAP)-0.0165) x 2000 x (1-(0.45 x VSE factor))</pre>
		<pre>iii. closed-mold curing with roll-out</pre>	EF = 0.107 x %HAP x 2000 x 0.85	EF = ((0.157 x %HAP)-0.0165) x 2000 x 0.85
		<pre>iv. vacuum bagging/closed-mold curing without roll-out</pre>	EF = 0.107 × %HAP × 2000 × 0.55	<pre>EF = ((0.157 x %HAP)-0.0165) x 2000 x 0.55</pre>
	<pre>d. atomized mechanical resin application with robotic or automated spray control</pre>	nonvapor-suppressed resin	EF = 0.169 x %HAP x 2000 x 0.77	EF = 0.77 x ((0.714 x %HAP)-0.18) x 2000
	e. filament application ⁶	i. nonvapor-suppressed resin	EF = 0.184 x %HAP x 2000	EF = ((0.2746 x %HAP)-0.0298) x 2000
		ii. vapor-suppressed resin	EF = 0.12 × %HAP × 2000	EF = ((0.2746 x %HAP)-0.0298) x 2000 x 0.65
	f. atomized spray gel coat	nonvapor-suppressed gel	EF = 0.445 x %HAP x 2000	EF = ((1.03646 x %HAP)-0.195) x 2000

	g. nonacomizeu spray gei coat application	nonvapor-suppressed gel coat	EF = 0.185 x %HAP x 2000	EF = ((0.4506 x %HAP)-0.0505) x 2000
	h. atomized spray gel coat application using robotic or automated spray	nonvapor-suppressed gel coat	EF = 0.445 × %HAP × 2000 × 0.73	EF = ((1.03646 × %HAP)-0.195) × 2000 × 0.73
2. centrifugal casting ₇₈		nonvapor-suppressed resin	EF = 0.558 x (%HAP) x 2000	EF = 0.558 x (%HAP) x 2000
operations	<pre>b. vented molds, but air vented through the molds is not heated</pre>	nonvapor-suppressed resin	EF = 0.026 × (%HAP) × 2000	EF = 0.026 × (%HAP) × 2000
Footnotes to Table 1				
¹ The equations in t These equations may from using the equat available.	¹ The equations in this table are intended for use in calculating emission factors to demonstrate compliance with the emission limits in subp These equations may not be the most appropriate method to calculate emission estimates for other purposes. However, this does not preclude a from using the equations in this table to calculate emission factors for purposes other then rule compliance if these equations are the most available.	n calculating emission factors to demon od to calculate emission estimates for emission factors for purposes other the	s to demonstrate compliance w mates for other purposes. Ho other then rule compliance :	or use in calculating emission factors to demonstrate compliance with the emission limits in subpart WWW. iate method to calculate emission estimates for other purposes. However, this does not preclude a facilit alculate emission factors for purposes other then rule compliance if these equations are the most accurate
² To obtain the org calculated using Eqn	2 To obtain the organic HAP emissions factor value for an calculated using Equation 1 of §63.5810. The organic HAP	an operation with an IAP emissions factors	add-on control device multiply the EF above by the have units of lbs of organic HAP per ton of resin c	e EF above by the add-on control factor per ton of resin or gel coat applied.
³ Percent HAP means the addition of fill	³ Percent HAP means total weight percent of organic the addition of fillers, catalyst, and promoters. I	organic HAP (styrene, methyl methacrylate, ters. Input the percent HAP as a decimal,	and any other organic i.e., 33 percent HAP	: HAP) in the resin or gel coat prior to should be input as 0.33, not 33.
⁴ The VSE factor mee subpart.	factor means the percent reduction in orga	organic HAP emissions expressed a	as a decimal measured by the VSE	VSE test method of appendix A to this
⁵ This equation is automated or roboti or mechanical nonatuappropriate nonatom	⁵ This equation is based on a organic HAP emissions factor equation developed for mechanical atomized controlled spray. automated or robotic spray systems with atomized spray. All spray operations using hand held spray guns must use the a or mechanical nonatomized organic HAP emissions factor equation. Automated or robotic spray systems using nonatomized s appropriate nonatomized mechanical resin application equation.	factor equation developed for cay. All spray operations usi cor equation. Automated or rc a equation.	r mechanical atomized control ing hand held spray guns must obotic spray systems using no	or equation developed for mechanical atomized controlled spray. It may only be used for All spray operations using hand held spray guns must use the appropriate mechanical atomized juation. Automated or robotic spray systems using nonatomized spray should use the ation.
⁶ Applies only to f mechanical applicat	⁶ Applies only to filament application using an open mechanical application organic HAP emissions factor	ı resin bath. equation.	If resin is applied manually or with a spray	y gun, use the appropriate manual or
⁷ These equations a completely sealed a	7 These equations are for centrifugal casting operations where the mold is vented during completely sealed after resin injection are considered to be closed molding operations.	g operations where the mold is vented durin considered to be closed molding operations	spinning.	Centrifugal casting operations where the mold is
⁸ If a centrifugal (the appropriate ope centrifugal casting calculate an emissi manual resin applic entire operation as	⁸ If a centrifugal casting operation uses mechanical or manual resin application techniques to apply resin to an open centrifugal the appropriate open molding equation with covered cure and no rollout to determine an emission factor for operations prior to th centrifugal casting mold. If the closed centrifugal casting mold is vented during spinning, use the appropriate centrifugal castic calculate an emission factor for the portion of the process where spinning and cure occur. If a centrifugal casting operation us manual resin application techniques to apply resin to an open centrifugal casting mold is occur. If a centrifugal casting operation us manual resin application techniques to apply resin to an open centrifugal casting mold, and the mold is then closed and is not verentive operation as open molding with covered cure and no rollout to determine emission factors.	schanical or manual resin application techniques to a covered cure and no rollout to determine an emission ntrifugal casting mold is vented during spinning, use n of the process where spinning and cure occur. If ε y resin to an open centrifugal casting mold, and the ed cure and no rollout to determine emission factors.	resin application techniques to apply resin to an open rollout to determine an emission factor for operations old is vented during spinning, use the appropriate centry re spinning and cure occur. If a centrifugal casting o centrifugal casting mold, and the mold is then closed ar out to determine emission factors.	to apply resin to an open centrifugal casting mold, use tion factor for operations prior to the closing of the use the appropriate centrifugal casting equation to If a centrifugal casting operation uses mechanical or the mold is then closed and is not vented, treat the cors.

n 15. Table 3 to subpart WWWW of part 63 is revised to read as follows:

A s specified in § 63.5805, you must meet the following organic HAP emissions limits that apply to you: