Environmental Protection Agency

Pt. 63, Subpt. WWW, Table 5

For . . . You must . . .

2. a new or existing cleaning operation not use cleaning solvents that contain HAP, except that styrene may be used as a cleaner in closed systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin.

3. a new or existing materials HAP-containing materials storage operation. keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety.

4. an existing or new SMC manufacturing operation close or cover the resin delivery system to the doctor box on each SMC manufacturing machine. The doctor box itself may be open.

5. an existing or new SMC manufacturing operation use a nylon containing film to enclose SMC.

6. all mixing or BMC manufacturing operations use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation.

7. all mixing or BMC manufacturing operations close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety. Vents routed to a 95 percent efficient control device are exempt from this requirement.

8. all mixing or BMC manufacturing operations keep the mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels.

9. a new or existing pultrusion operation manufacturing parts that meet the following criteria: 1,000 or more reinforcements or the glass equivalent of 1,000 ends of 113 yield roving or more; and have a cross sectional area of 60 square inches or more that is not subject to the 95 percent organic HAP emission reduction requirement. i. not allow vents from the building ventilation system, or local or portable fans to blow directly on or across the wet-out area(s), ii. not permit point suction of ambient air in the wet-out area(s) unless that air is directed to a control device, iii. use devices such as deflectors, baffles, and curtains when practical to reduce air flow velocity across the wet-out area(s), iv. direct any compressed air exhausts away from resin and wet-out area(s), v. convey resin collected from drip-off pans or other devices to reservoirs, tanks, or sumps via covered troughs, pipes, or other covered conveyance that shields the resin from the ambient air, vi. cover all reservoirs, tanks, sumps, or HAP-containing materials storage vessels except when they are being charged or filled, and vii. cover or shield from ambient air resin delivery systems to the wet-out area(s) from reservoirs, tanks, or sumps where practical.

1 Containers of 5 gallons or less may be open when active mixing is taking place, or during periods when they are in process (i.e., they are actively being used to apply resin). For polymer casting mixing operations, containers with a surface area of 500 square inches or less may be open while active mixing is taking place.

[70 FR 50133, Aug. 25, 2005]

ALTepative ORGANIC HAP EMISSIONS LIMITS FOR OPEN MOLDING, CENTRIFUGAL CASTING, AND SMC MANUFACTURING OPERATIONS WHERE THE STANDARDS ARE BASED ON A 95 PERCENT REDUCTION REQUIREMENT

As specified in §63.5805, as an alternative to the 95 percent organic HAP emissions reduction requirement, you may meet the appropriate organic HAP emissions limits in the following table:

<table>
<thead>
<tr>
<th>If your operation type is . . .</th>
<th>And you use . . .</th>
<th>Your organic HAP emissions limit is a1 . . .</th>
</tr>
</thead>
</table>

a1Containers of 5 gallons or less may be open when active mixing is taking place, or during periods when they are in process (i.e., they are actively being used to apply resin).
If your operation type is . . . And you use . . . Your organic HAP emissions limit is a1 . . .

5. Open molding—shrinkage controlled resins
   a. Mechanical resin application ........................................ 18 lb/ton.
   b. Filament application ................................................. 11 lb/ton.

   b. White/off white pigmented gel coating .................... 22 lb/ton.
   c. All other pigmented gel coating ............................... 19 lb/ton.
   d. CR/HS or high performance gel coat ................. 31 lb/ton.
   e. Fire retardant gel coat ............................................. 43 lb/ton.
   f. Clear production gel coat ......................................... 27 lb/ton.

7. Centrifugal casting—CR/HS3,4 ................................ A vent system that moves heated air through the mold.
   27 lb/ton.

8. Centrifugal casting—non-CR/HS3,4 ......................... A vent system that moves heated air through the mold.
   21 lb/ton.

7. Centrifugal casting—CR/HS3,4 ................................ A vent system that moves ambient air through the mold.
   2 lb/ton.

8. Centrifugal casting—non-CR/HS3,4 ......................... A vent system that moves ambient air through the mold.
   1 lb/ton.

9. SMC Manufacturing .................................................. N/A ...................................................... 2.4 lb/ton.

1 Organic HAP emissions limits for open molding and centrifugal casting expressed as lb/ton are calculated using the equations shown in Table 1 to this subpart. You must be at or below these values based on a 12-month rolling average.
2 These limits are for spray application of gel coat. Manual gel coat application must be included as part of spray gel coat application for compliance purposes using the same organic HAP emissions factor equation and organic HAP emissions limit. If you only apply gel coat with manual application, treat the manually applied gel coat as if it were applied with atomized spray for compliance determinations.
3 Centrifugal casting operations where the mold is not vented during spinning and cure are considered to be closed molding and are not subject to any emissions limit. Centrifugal casting operations where the mold is not vented during spinning and cure, and the resin is applied to the open centrifugal casting mold using mechanical or manual open molding resin application techniques are considered to be open molding operations and the appropriate open molding emission limits apply.
4 Centrifugal casting operations where the mold is not vented during spinning and the resin is applied to the open centrifugal casting mold using mechanical or manual open molding resin application techniques, use the appropriate centrifugal casting emission limit to determine compliance. Calculate your emission factor using the appropriate centrifugal casting emission factor in Table 1 to this subpart, or a site specific emission factor as discussed in §63.5796.