



FACT SHEET

R307-343 Wood Furniture Manufacturing Operations

Overview

The Utah Division of Air Quality Rule R307-343, was adopted as part of a package of rules designed to help minimize pollution. The rule applies to wood furniture manufacturing operations including related cleaning activities that use a combined 20 gallons or more of coating products and associated solvents per year and are located in Box Elder, Cache, Davis, Salt Lake, Utah, Tooele, or Weber counties.

Requirements

You have the option of either limiting the amount of VOC coatings applied or limiting VOCs by using an add on control device. (See entire rule for all circumstances.)

VOC Content Limits

Wood Manufacturing Coating Limits

(VOC Content Limit (lb/lb) exempt solvents (compounds not classified as VOC as defined in R307-101-2), as applied)

| Coating Category | VOC Content Limit (lb/lb) |
|---|---------------------------|
| Topcoat | 0.4 |
| Single Component, Non-Catalyzed | |
| Topcoat | 0.9 |
| Sealer | 0.9 |
| Acid-Cured, Single and 2 Component | |
| Topcoat | 1.0 |
| Sealer | 1.2 |
| 2 Component Polyurethane | |
| Topcoat | 1.0 |
| Sealer | 1.0 |
| Cobalt Peroxide Cured Polyester | |
| Topcoat/Sealer | 1.0 |
| Formaldehyde Free Acid Catalyzed | |
| Topcoat/Sealer | 1.0 |
| Strippable Spray Booth Coatings | |
| Strippable Spray Booth Coatings | 0.8 |

The limits in Table 1 do not apply to canned aerosol coating products less than 22 fl. oz. (0.66 liter) capacity and used exclusively for touch-up or repair.

Utah Division of Air Quality

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Contact
(801) 536-4000

General Air Quality information, regulations, and contact information: <https://deq.utah.gov/Divisions/daq/index.htm>.

This fact sheet provides general information concerning the Emission Standards for the Wood Furniture Manufacturing Operations rule. See <http://www.rules.utah.gov/publicat/code/r307/r307-343.htm> for the entire rule.

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Application Equipment

Equipment that meets a minimum 65% transfer efficiency and operated according to manufacturer specifications. Equipment that meets the transfer efficiency requirement include:

- Brush, dip, or roll coating;
- Electrostatic application, and
- High volume, low pressure (HVLP) spray equipment.

Other coating methods that achieve transfer efficiency equivalent to HVLP or electrostatic spray application methods may be used.

Conventional air spray methods, under specified circumstances.

Add on Controls

If an add-on control system is used, the owner or operator shall install and maintain the add-on emission control system in accordance with the manufacturer recommendations and maintain 85% or greater capture and control efficiency. The overall capture and control efficiency shall be determined using EPA approved methods or an alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

Work Practices

Control techniques and work practices for coatings shall be implemented at all times to reduce VOC emissions. Control techniques and work practices shall include:

- Storing all VOC-containing coatings, thinners, and coating-related waste materials in closed containers;
- Ensuring that mixing and storage containers used for VOC-containing coatings, thinners, and coating-related waste material are kept closed at all times except when depositing or removing these materials;
- Minimizing spills of VOC-containing coatings, thinners, and coating-related waste materials; and
- Conveying VOC-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes.

The work practices for cleaning materials shall be implemented at all times to reduce VOC emissions from sources. The work practices shall include:

- Storing all VOC-containing cleaning materials and used shop towels in closed containers;
- Ensuring that storage containers used for VOC-containing cleaning materials are kept closed at all times except when depositing or removing these materials;
- Minimizing spills of VOC-containing cleaning materials;
- Conveying VOC-containing cleaning materials from one location to another in closed containers or pipes; and
- Minimizing VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

Solvent cleaning operations shall be performed using cleaning materials having a VOC composite vapor pressure no greater than 1 mm Hg or less at 20 degrees Celsius, unless an add-on control device is used.

Record Keeping

Maintain records, for a minimum of two years, of inventory and product data sheets of all coatings and solvents applied. If an add-on control device is used, and the physical characteristics that demonstrate compliance with R307-343. Records shall be made available to the director upon request.