



FACT SHEET

R307-350 Miscellaneous Metal Parts and Products Coatings

Overview

The Utah Division of Air Quality, R307-350, was adopted as part of a package of rules designed to help minimize pollution along the Wasatch Front. The rule applies to metal furniture surface coating operations in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

The rule is designed to limit volatile organic compound (VOC) emissions and applies to, but is not limited to large and small farm machinery, small appliance, commercial and industrial machinery, fabricated metal products that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

Requirements

You have the option of either limiting the amount of VOC coatings applied or limiting VOCs by using add on control systems. Work practices to be followed are also outlined.

Add-On Controls Systems

An incinerator, carbon adsorption, or any other add-on emission control system operated and maintained:

- In accordance with the manufacturer recommendations,
- To achieve and maintain at least 90% capture and control efficiency.

Continuous emission reduction during all operational periods.

Document:

- Rule requirements are attained.
- Records of key system parameters are maintained, including temperature, pressure and flow rates.
- Operator inspection schedule, monitoring and recordkeeping, as required by rule.

Work Practices to be Followed

Control techniques including:

- Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;
- Minimize spills; clean up immediately;
- Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

Utah Division of Air Quality

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Contact

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General Air Quality information, regulations, and contact information: <http://www.airquality.utah.gov>

This fact sheet provides general information concerning the Miscellaneous Metal Parts and Products Coatings rule. See <http://www.rules.utah.gov/publicat/cod/e/r307/r307-350.htm> for the entire rule.

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- Close mixing vessels and other materials except when specifically in use; and
- Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

Coating application method:

- Achieve a minimum of 65% transfer efficiency.
- The following applications achieve this requirement:
 - Electrostatic application; Flow coat; Dip/electrodeposition coat; Hand application methods; Roll coat; High-volume, low-pressure (HVLP) spray; Airless or air-assisted airless spray. For metal coatings with a viscosity of 15,000 centipoise or greater.
 - Other methods may be used if the transfer efficiency is met.
 - Operated in accordance with the manufacturers specifications.

Solvent cleaning operations:

- Cleaning material with VOC content of 0.21 pounds per gallon or less.
- Excluding compounds not classified as VOC.

VOC Content Limitations

If there is more than one content limit, the most stringent applies.

Values in pounds of VOC per gallon of coating, minus water and exempt solvents, as applied.

Coating Category	VOC Content Limits	
	Air Dried	Baked
General One Component	2.8	2.3
General Multi Component	2.8	2.3
Camouflage	3.5	3.5
Electric-Insulating Varnish	3.5	3.5
Etching Filler	3.5	3.5
Extreme High-Gloss	3.5	3.0
Extreme Performance	3.5	3.0
Heat-Resistant	3.5	3.0
High Performance Architectural	6.2	6.2
High Temperature	3.5	3.5
Metallic	3.5	3.5
Military Specification	2.8	2.3
Mold-Seal	3.5	3.5
Pan Backing	3.5	3.5
Prefabricated Architectural Multi-Component	3.5	2.3
Prefabricated Architectural One-Component	3.5	2.3
Pretreatment Coatings	3.5	3.5
Repair and Touch Up	3.5	3.0
Silicone Release	3.5	3.5
Solar-Absorbent	3.5	3.0
Vacuum-Metalizing	3.5	3.5
Drum Coating, New, Exterior	2.8	2.8
Drum Coating, New, Interior	3.5	3.5
Drum Coating, Reconditioned, Exterior	3.5	3.5
Drum Coating, Reconditioned, Interior	4.2	4.2

Exemptions

See <http://www.rules.utah.gov/publicat/code/r307/r307-350.htm> for all exemptions.

Record Keeping

Maintain records, for a minimum of two years, demonstrating compliance.

