

Compliance Options

[§63.4291]

Table 1. HAP Emission Limits for Subcategories

Subcategory	Emission Limit (kg HAP/liter of solids)	
	New/Reconstructed Sources	Existing Sources
Coating and Printing Operations	0.08	0.12
Dyeing and Finishing Operations	0.016	0.016
Dyeing Operations Only	0.016	0.016
Finishing Operations Only	0.0003	0.0003
Slashing Operations	0 ^a	0 ^a

^a As determined according to §63.4341 of subpart OOOO.

You may comply with your emission limits by doing any of the following:

- 1) Compliant Material Option** - Each coating, printing, slashing, dyeing, or finishing material you use must not exceed the HAP limit in Table 1, determined for the subcategory during the 1-month compliance period. Each thinner and cleaning material used must contain no organic HAP.
- 2) Emission Rate Without Add-on Controls** - The organic HAP emission rate, calculated as a 12-month rolling average, for coating, printing, dyeing, finishing, thinners, and cleaning materials must not exceed the HAP limits in Table 1. You cannot use this option for slashing affected sources.
- 3) Emission Rate With Add-On Controls** - The organic HAP emission rate, calculated as a 12-month rolling average, for coating, printing, thinners, and cleaning materials (including emission capture and control efficiency) must not exceed the HAP limits in Table 1. You cannot use this option for slashing affected sources.
- 4) Organic HAP Overall Control Efficiency Option** - HAP emissions must be reduced by an overall control efficiency of at least 98 percent for new or reconstructed sources and 97 percent for existing sources. You cannot use this option for slashing, dyeing, or printing affected sources.
- 5) Oxidizer Outlet Organic HAP Concentration Limit**—If you use an oxidizer to control organic HAP emissions, the oxidizer must be operated so that the outlet organic HAP concentration is no greater than 20 parts per million by volume on a dry basis. You cannot use this option for slashing, dyeing, or printing affected sources.
- 6) Equivalent Emission Rate Option**—For the entire dyeing and finishing affected source, the fraction of organic HAP applied that is discharged to wastewater must be at least 90 percent. The wastewater must be discharged to a POTW or to secondary wastewater treatment. The total organic HAP emissions must be less than 10 tpy. You must also meet the requirements of §63.4330.

Compliance Calculations

[§§63.4341-63.4366]

For Compliance Option No. 1, the collected data for regulated materials are used to calculate the organic HAP content of each material used each month. For Compliance Option Nos. 2 and 3, an organic HAP emission rate for the 12-month rolling average compliance period is calculated. For Compliance Option No. 4, an overall organic HAP control efficiency is calculated for the compliance period. Compliance Option No. 5 may be used if you use an oxidizer to control HAP emissions from a coating or printing operation.

You can also contact your regional EPA air toxics office at the following numbers:

Address	States	Website/ Phone Number
Region 1		
1 Congress Street Suite 1100 Boston, MA 02114-2023	CT, MA, ME, NH, RI, VT	www.epa.gov/region1 (888) 372-7341* (617) 918-1111
Region 2		
290 Broadway New York, NY 10007-1866	NJ, NY, PR	www.epa.gov/region2 (212) 637-5000
Region 3		
1650 Arch Street Philadelphia, PA 19103-2029	DE, MD, PA, VA, WV, DC	www.epa.gov/region3 (800) 438-2474* (215) 814-5000
Region 4		
Atlanta Federal Center 61 Forsyth Street, SW Atlanta, GA 30303-3104	FL, NC, SC, KY, TN, GA, AL, MS	www.epa.gov/region4 (800) 241-1754 (404) 562-9900
Region 5		
77 W. Jackson Blvd Chicago, IL 60604	IL, IN, MI, WI, MN, OH	www.epa.gov/region5 (800) 621-8431 (312) 353-2000
Region 6		
1445 Ross Avenue Suite 1200 Dallas, TX 75202	AR, LA, NM, OK, TX	www.epa.gov/region6 (800) 887-6063* (214) 665-6444
Region 7		
901 N. 5 th Street Kansas City, KS 66101	IA, KS, MO, NE	www.epa.gov/region7 (800) 223-0425 (913) 551-7003
Region 8		
999-18th St. Suite 300 Denver, CO 80202-2466	CO, MT, ND, SD, UT, WY	www.epa.gov/region8 (800) 227-8917* (303) 312-6312
Region 9		
75 Hawthorne St., San Francisco, CA 94105	CA, AZ, HI, NV	www.epa.gov/region9 (415) 947-8000 (866) 372-9378
Region 10		
1200 6 th Avenue Seattle, WA 98101	AK, ID, WA, OR	www.epa.gov/region10 (800) 424-4372* (206) 553-1200

* For sources within the region, only.

For More Information

Copies of the rule and other material are located at EPA's Printing, Coating and Dyeing of Fabric and Other Textiles Surface Coating web site: www.epa.gov/ttn/atw/fabric/fabricpg.html

United States
Environmental Protection
Agency

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www.epa.gov/ttn/atw/fabric/fabricpg.html

Office of Air Quality Planning & Standards (E143-02)



PRINTING, COATING, AND DYEING OF FABRICS AND OTHER TEXTILES NESHAP (SUBPART OOOO)

AN OVERVIEW OF THE FINAL RULE



New EPA air emission standards for Printing, Coating, and Dyeing of Fabrics and Other Textiles were promulgated on May 29, 2003 [68 FR 32172]

Who is covered by the rule?

[§63.4281]

You are affected if you own or operate an affected source at a facility that is a major source, is located at a major source, or is part of a major source of hazardous air pollutants (HAP).

An Affected Source is . . .

Any new, reconstructed, or existing facility that is a major source and engages in printing, coating, slashing, dyeing or finishing of fabric or other textiles.

Fabric or other textiles includes, but is not limited to . . .

Any yarn, fiber, cord, thread, fabric and textile products, tents, roofing, soft baggage, marine fabric, drapery linings, flexible hoses, hot-air balloons, and awnings. The source category includes three subcategories: coating and printing; slashing; and dyeing and finishing.

The coating and printing subcategory includes . . .

The application of semi-liquid coating material to the substrate for decorative, protective, or functional purposes; OR the application of color or patterns to textile substrates.

The slashing subcategory includes. . .

The yarn preparation process performed on warp yarn prior to weaving.

The dyeing and finishing subcategory includes. . .

The application of color to the whole body of the substrate (dyeing) or the application of finish after dyeing to improve the appearance or usefulness of the substrate.

Who is not covered by this rule?

[§63.4281]

The following sources are not covered under Subpart OOOO:

- ❖ Sources that only use coatings, printing, slashing, dyeing, finishing, thinning, and cleaning materials containing no organic HAP
- ❖ Surface coating subject to any other NESHAP in Part 63 as of the date of publication of that final rule in the Federal Register and specifically exempted from subpart OOOO
- ❖ Research or laboratory facilities
- ❖ Janitorial or building and facility maintenance operations
- ❖ Coating and printing operations with the coating or printing material being dried or cured at ambient conditions
- ❖ Coating, printing, slashing, dyeing, or finishing operations at a major source and not for commerce unless HAP emissions equal or exceed the major source HAP emissions threshold

- ❖ Any coating line that coats 10 percent or less of fabric and other textiles on the same line as any other substrate and subject to a part 63 NESHAP for that substrate.
- ❖ Coating, printing, slashing, dyeing, or finishing operations performed onsite at US Armed Forces facilities.
- ❖ Coating application using hand-held nonrefillable aerosol containers, touchup markers, or marking pens

What standards must I follow?

[§63.4290]

You must meet the emission limit for the subcategory or subcategories present in your facility. The three subcategories are: coating and printing, slashing, and dyeing and finishing.

Operating Limits

[§63.4292]

The operating limits are the site-specific parameter limits you determine for your capture and control devices during the performance test. Your operating limits must be monitored by a continuous parameter monitoring system (CPMS).

If your initial startup is ...	Then you're *	And must comply by ...
On or before	An <i>existing</i>	May 29, 2006
After July 11, 2002	A <i>new</i> source	By May 29, 2003, or initial startup of

* When determining whether a source is new or existing, the General Provisions (40 CFR 63, Subpart A) requires us to use the proposal date of the rule as the cutoff date. For subpart OOOO, the rule proposal date was July 11, 2002.

Noncompliance with applicable regulations after the compliance date may result in fines and penalties of up to \$25,000 per day per violation.

Work Practice Standards

[63.4293]

If you use capture and control devices, you must develop and operate according to a work practice plan. The plan should include actions to:

- ❖ Cover mixing and storage vessels containing organic HAP-containing regulated materials except when adding, removing, or mixing contents
- ❖ Use closed containers or pipes to store and convey organic HAP-containing regulated materials
- ❖ Minimize spills of organic HAP-containing regulated materials
- ❖ Minimize organic HAP emissions during cleaning of storage, mixing, and conveying equipment

Notification, Recordkeeping, and Reporting Requirements

Initial Notification: [§63.4310]

The initial notification states that your facility is subject to the printing, coating and dyeing of fabric and other textiles surface coating standards. You must submit this no later than May 29, 2004 if you are an existing source. If you are a new source, you must submit this by September 23, 2001, or initial startup, whichever is later.

Notification of Intent to Conduct a Performance Test:

[§63.9(e)] If your facility is required to conduct performance tests (e.g., those with add-on control equipment), you must submit a notification of intent to conduct a performance test 60 days prior to the test.

Notification of Compliance Status: [§63.4310]

You must submit a Notification of Compliance Status (NOCS) within 30 days after initial compliance period. The initial compliance period ends on either the last day of the first full month following the compliance date or the last day of the 12th full month following the compliance date, depending on the compliance option that you choose.

Performance Test Report: [§63.4320]

If your facility is required to conduct performance tests (e.g., those with add-on control equipment), you must submit a performance test report within 60 days after completion of the performance test.

Startup, Shutdown, Malfunction Reports: [§63.4320]

A startup, shutdown, and malfunction report must be submitted immediately if there was a startup, shutdown, or malfunction of the control device during the reporting period that is not consistent with the startup, shutdown, and malfunction plan. If actions taken were consistent with the startup, shutdown, and malfunction plan, the report must be submitted semiannually.

Semiannual Compliance Reports: [§63.4320]

After the initial compliance period each affected source must submit semiannual compliance reports.

Records: [§§63.4330 and 63.4331]

Your facility is required to keep records of reported information and all other information necessary to document compliance with the proposed rule for 5 years. There may be additional requirements depending on the compliance option that you choose.