

40 CFR 63.460
National Emission Standard for Halogenated Solvent Cleaning:
Overall Emission Limits for Batch Vapor and In-Line Machines

June 1998

The National Emission Standard for Hazardous Air Pollutants (NESHAP) for Halogenated Solvent Cleaning is a federal regulation that affects facilities with solvent cleaning machines. What your facility must do to comply with this NESHAP depends on the type of solvent cleaning machines that you use (batch vapor, in-line vapor, in-line cold, or batch cold).

This fact sheet provides a general overview of the requirements for **batch vapor or in-line solvent cleaning machines using the alternative standard for an overall emission limit to comply with the NESHAP**. Other fact sheets describe additional elements of complying with the NESHAP. Additional technical information is available by calling the Small Business Assistance Program (SBAP) at the toll-free number below for free and confidential help. For general information about air emissions regulations, contact the Environmental Ombudsman Unit at the toll-free number below; their assistance is also free and confidential.

Alternative Standard: Overall Emission Limit

This compliance option sets an emission limit for solvent cleaning machines. Owners of batch vapor and in-line cleaning machines that have a solvent/air interface and elect to comply with the overall emission limit must not exceed the monthly emission limits listed in the table on the reverse.

The advantage of complying with this overall limit is that there are no equipment, work practice, or operator test requirements. However, recordkeeping, initial notification, and compliance reports are still required (for a closer look at this compliance option see below).

The emissions from each machine must not exceed an average monthly emission limit (see table on reverse) using a three-month rolling average. The amount of solvent emitted each month must be calculated based on how much solvent is added and removed from each machine. Use the following procedure:

1. A fill line must be indicated on the machine and each time solvent is added, the level of solvent must return to that fill line. Record how much solvent is added each month.

(over)

Need more facts?

For technical assistance and for help with permitting, call the Small Business Assistance Program (SBAP) of the New York State Environmental Facilities Corporation
(800) 780-7227

For information about regulations, compliance financing assistance, and assistance resolving regulatory difficulties, contact the Environmental Ombudsman Unit of Empire State Development
(800) 782-8369

Both offer free and confidential assistance to small businesses.

The New York State
Small Business
Stationary Source
Technical
and
Environmental
Compliance
Assistance
Program

2. To calculate the weight of the emissions in any given month, multiply the number of gallons added for that month (less any solvent removed) by the density of the solvent (in pounds per gallon—see the fact sheet on applicability for the densities of the regulated solvents) to obtain the number of pounds of solvent emitted.
3. Divide that number by the area (in square feet) of the solvent surface in your machine. For example, if your machine is 5 feet by 2 feet, divide by 10.
4. The three-month rolling average of this value cannot exceed the value in the table below that applies to your type of machine. To calculate a three-month rolling average each month, add the solvent emissions from step 3, above, for the previous three months and divide by three. For example, in January add the total solvent emissions for October, November, and December and divide by three.

Alternatively, you can multiply the appropriate value for your machine type in the table below by the area of the solvent/air interface in your machine then divide by the density of your solvent to determine the maximum number of gallons you are allowed to add each month. By using this approach, you can play it safe and ensure that you never exceed the limit on a monthly basis.

Machine Type	Avg. monthly emission limit^a
Batch Vapor	30.7 lb/ft ²
Existing ^b In-line	31.4 lb/ft ²
New ^c In-line	20.0 lb/ft ²

^a The maximum amount of solvent in pounds emitted per square foot of solvent surface area per month.

^b Existing = machines in operation on or before 11/29/93.

^c New = start up after 11/29/93.

Owners of batch vapor and in-line cleaning machines that do not have a solvent/air interface and wish to comply with the overall emission limit should contact the SBAP (800-780-7227) for assistance in calculating the limit that applies to their machine.

☞ Owners of batch vapor and in-line cleaning machines should be aware that many solvent cleaning machines, including those with state-of-the-art controls, may **NOT** be able to comply with the monthly emission limits required under **the overall emission limit**. Solvent machines that may have difficulty meeting the overall emission limit standard are those that operate more than one shift per day and those that are operated close to capacity. If your machine cannot meet the alternative standard, you must use either the idling emission limit or the control combinations to comply. Refer to the SBAP's technical fact sheets on these compliance strategies for additional information.

Recordkeeping requirements

If you use the overall emission limit alternative to comply, you must keep the following records for a period of 5 years:

1. Amounts of solvent that are added to the machine and the dates of addition.
2. Solvent composition of wastes removed from machines.
3. Written calculations showing how monthly solvent emissions and the rolling 3-month average emissions from the machine were determined.