

The emission limits are based on the maximum coatings usage allowed and an established maximum daily weighted average VOM content (minus water and exempt compounds) of all coatings used.

- b. Emissions and operation of the cold cleaning degreaser shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Material Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
	<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>	<u>(Lbs/Gal)</u>	<u>(Lbs/Mo)</u>	<u>(Ton/Yr)</u>
Solvent Cleaner	146	1,169	6.68	975	3.90

The emission limits are based on the maximum material usage allowed and the maximum VOM content of the material used.

- c. The cleanup solvent usage and associated VOM emissions shall not exceed the following limits:

<u>Cleanup Solvent Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
<u>gal/mo</u>	<u>gal/yr</u>	<u>lb/gal</u>	<u>lbs/mo</u>	<u>tons/yr</u>
136	1,090	7.52	1,024	4.10

The emission limits are based on the maximum cleanup solvent usage allowed and the maximum VOM content of the materials used.

- d. Compliance with the above limits shall be determined from a running total of 12 months of data, i.e., current month's data plus the preceding 11 months.
4. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
- 5a. Pursuant to 35 Ill. Adm. Code 218.211(c), the Permittee shall collect and record all of the following information each day for each coating line:
- i. The name and identification number of each coating as applied on each coating line.
 - ii. The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
- b. The Permittee shall also maintain the following records to check compliance with the limitations of this permit.

- i. Volume of each coating used in gallons/month and gallons/year.
 - ii. The daily-weighted average VOM content of all coatings as applied on each coating line in lbs/gallon of coating minus water and any compounds which are specifically exempted from the definition of VOM.
 - iii. Name and identification of materials used in the solvent cleaners and their usage rate in gallons/month and gallons/year.
 - iv. VOM content of the materials used in the solvent cleaner in lbs/gallon.
 - v. Name and identification of all cleanup solvents used and their usage rate in gallons/month and gallons/year.
 - vi. VOM content of the cleanup solvents used in lbs/gallon.
 - vii. Monthly records of hazardous air pollutant content of all coatings, solvent cleaners, and cleaning solutions.
 - viii. Monthly HAP emissions from use of all coatings, solvent cleaners and cleanup solutions. Annual HAP emissions shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.
- 6a. The Permittee shall not operate the cold cleaning degreaser with a solvent vapor pressure that exceeds 1.0 mmHg (0.019 psi) measured at 20°C (68°F).
- b. The Permittee shall not operate the cold cleaning degreaser unless:
- i. Waste solvent is stored in covered containers only and not disposed of in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - ii. The cover of the degreaser is closed when parts are not being handled;
 - iii. Parts are drained until dripping ceases;
 - iv. A permanent conspicuous label summarizing the operating procedures is affixed to the degreaser; and
 - v. If a solvent spray is used, the degreaser is equipped with a solid fluid stream spray, rather than a fine, atomized or shower spray.
- c. The Permittee shall maintain the following records for the cold cleaning degreaser:
- i. Maintain records which include for each purchase:

- A. The name and address of the solvent supplier;
 - B. The date of purchase;
 - C. The type of solvent; and
 - D. The vapor pressure of the solvent measured in mmHg at 20°C (68°F).
7. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
 8. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
 9. This permit is issued based on negligible emissions of particulate matter from two thermoformer, deburring machine, 3-stage washer and dryer and welding operation. For this purpose emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
 - 10a. Material insulated with polyvinyl chloride or asbestos, or scrap containing the fuming metals tin, zinc, or lead shall not be charged to the heat cleaning oven.
 - b. The afterburner shall be heated to an operating temperature of 1400°F before charging and this temperature shall be maintained during operation.
 - c. The heat cleaning oven shall be equipped with an afterburner temperature indicator.
 11. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
 12. The Permittee shall submit the following additional information with the Annual Emission Report, due May 1st of each year:

- a. Annual coating usage.
- b. Average daily weighted average VOM content of the coatings for the year.
- c. Annual cleanup solvent usage.
- d. Annual solvent usage for the two solvent cleaners.

If there have been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.

13. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

If you have any questions on this permit, please call John Blazis at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JPB:psj

cc: IEPA, FOS Region 1
IEPA, Compliance Unit
Lotus Notes

Attachment A - Emission Summary

This application provides a summary of the maximum emissions of personal scale manufacturing plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. This plant is using 11,006 gallons of coating, 1,090 gallons of cleanup solvents and 1,169 gallons of solvent cleaner. The resulting maximum emissions are well below the levels at which this source would be considered a major source for purpose of the Clean Air Act Permit Program. Actual emissions from the source will be less than predicted in this summary to the extent that less material is handled e.g., amount of coatings used.

1. Emissions of volatile organic material from the facility wide operation:

- a. The total coatings usage and associated VOM emissions.

<u>Coating Usage</u>		<u>Daily Weight Average</u>	<u>VOM Emissions</u>	
<u>(Gal/Month)</u>	<u>(Gal/Year)</u>	<u>VOM Content</u>		
<u>(Lbs/Month)</u>	<u>(Tons/Year)</u>	<u>(Lb/Gallon)</u>		
1,375	11,004	2.99	4,113	16.45

The emission limits are based on the maximum coatings usage allowed and an established maximum daily weighted average VOM content of all coatings used.

- b. Emissions and operation of the cold cleaning degreaser.

<u>Material Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>	<u>(Lbs/Gal)</u>		
			<u>(Lbs/Mo)</u>	<u>(Ton/Yr)</u>
146	1,169	6.68	975	3.9

The emission limits are based on the maximum material usage allowed and the maximum VOM content of the materials used.

- c. Cleanup solvent usage and associated VOM emissions.

<u>Cleanup Solvent Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>	<u>(Lb/Gal)</u>		
			<u>(Lbs/Mo)</u>	<u>(Tons/Yr)</u>
136	1,090	7.52	1,024	4.10

The emission limits are based on the maximum cleanup solvent usage allowed and the maximum VOM content of the materials used.

- d. Emissions of VOM from all other activities at the facility are insignificant and shall not exceed nominal hourly emission rate and 0.44 tons/year.

Total facility wide VOM = $16.45 + 3.9 + 4.1 + 0.44 = 24.89$ tons/yr

2. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
3. Emissions of particulate matter from the two thermoformers, deburring machine, 3-stage washer and dryer and welding operation are insignificant. The total particulate emissions from all these combined at 0.44 tons/year each is 2.2 tons/year.

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