



# Illinois Environmental Protection Agency

## Solvent Cleaning Open Top Vapor Degreaser

Illinois Environmental Protection Agency  
Bureau of Air – Permit Section (MC 11)  
2520 West Iles Ave  
P.O. Box 19276  
Springfield, IL 62794-9276

Date Form Received

### **General Information**

Source Name: \_\_\_\_\_

Source ID Number: \_\_\_\_\_

CAAPP Permit Number: \_\_\_\_\_

Environmental Contact Name: \_\_\_\_\_

Environmental Contact Email: \_\_\_\_\_

Environmental Contact Phone Number: \_\_\_\_\_

Name of Emission Unit: \_\_\_\_\_

Name of Process: \_\_\_\_\_

Description of Process: \_\_\_\_\_

Description of Product/Activity: \_\_\_\_\_

Flow Diagram Designation of Emission Unit: \_\_\_\_\_

Manufacturer of Emission Unit (if known): \_\_\_\_\_

Model Number (if known): \_\_\_\_\_

Serial Number (if known): \_\_\_\_\_

Actual or Planned Construction Date (Month/Year): \_\_\_\_\_

Actual or Planned Operation Date (Month/Year): \_\_\_\_\_

Actual or Planned Latest Modification Date (Month/Year): \_\_\_\_\_

Briefly Describe Modification (if applicable):

The Illinois EPA is authorized to require, and you must disclose, the requested information on this form pursuant to the Environmental Protection Act (“Act”), 415 ILCS 5/1 et seq., and its implementing regulations. This information shall be provided using either this form or in an alternative manner at your discretion. Failure to disclose the information may result in an incomplete application and other penalties as provided for in the Act, 415 ILCS 5/42-45. Intentional falsification of the information in this form may result in significant criminal and civil penalties as provided by law.

If the emission unit has more than one mode of operation, explain and identify which mode is covered by this form (note: a separate 358-CAAPP form must be completed for each mode):

Provide the name and designation of all air pollution control equipment controlling this emission unit, if applicable (form 260-CAAPP and the appropriate 260-CAAPP addendum form must be completed for each item of air pollution control equipment):

Provide any limitations on source operation affecting emissions or any work practice standards (e.g., only one unit is operated at a time):

**Operating Information**

Attach associated calculations and label as Exhibit 358-1.

Operating Hours	Maximum	Typical
Hours Per Day		
Hours Per Week		
Weeks Per Year		

Throughput	Dec-Feb(%)	Mar-May(%)	Jun-Aug(%)	Sep-Nov(%)
Annual Throughput				



## **Compliance Information**

If the emission unit is not in compliance with all applicable requirements, then the 294-CAAPP form must be completed and submitted with this application.

Explanation of how initial compliance is to be, or was previously, demonstrated:

Explanation of how ongoing compliance will be demonstrated:

## **Operating and Equipment Requirements**

Is the degreaser equipped with a cover designed to open and close easily without disturbing the vapor zone?  Yes  No

Is the degreaser equipped with a device which shuts off the sump heat source if the amount of condenser coolant is not sufficient to maintain the designed vapor level?

Yes  No

Is the degreaser equipped with a device which shuts off the spray pump if the vapor level drops more than 10 cm (4 inches) below the bottom condenser coil?

Yes  No

Is the degreaser equipped with a device which shuts off the sump heat source when the vapor level exceeds the design level?

Yes  No

Is a permanent conspicuous label summarizing the operating procedures affixed to the degreaser?  Yes  No

Is the degreaser equipped with a freeboard height of 3/4 of the inside width of the degreaser tank or 91 cm (36 inches), whichever is less?  Yes  No

If Yes; if the opening is greater than 1 m<sup>2</sup> (10.8 ft<sup>2</sup>), is it equipped with a powered or mechanically assisted cover?  Yes  No

Is the degreaser equipped with any other equipment or system of equivalent emission control as approved by the agency and further processed consistent with 35 IAC 218.108 or 219.108. Such equipment or system may include a refrigerated chiller, an enclosed design or a carbon adsorption system.  Yes  No

Is the cover of the degreaser closed when workloads are not being processed through the degreaser?  Yes  No

Are solvent carryout emissions minimized by racking parts to allow complete drainage?  
 Yes  No

Are solvent carryout emissions minimized by moving parts in and out of the degreaser at less than 3.3 m/min (11 ft/min)?  
 Yes  No

Are solvent carryout emissions minimized by holding the parts in the vapor zone until condensation ceases?  
 Yes  No

Are solvent carry out emissions minimized by tipping out any pools of solvent on the cleaned parts before removal from the vapor zone?  
 Yes  No

Are solvent carryout emissions minimized by allowing parts to dry within the degreaser until visually dry?  
 Yes  No

Are porous or absorbent materials, such as cloth, leather, wood, or rope restricted from being placed in the degreaser?  Yes  No

Is less than half of the degreaser's open top area occupied with a workload?  
 Yes  No

Is the degreaser equipped so that when a workload is removed from the vapor zone the vapor level will not drop more than 10 cm (4 inches)?  Yes  No

Is the spraying done below the vapor zone only?  Yes  No

Are solvent leaks repaired immediately?  Yes  No

Are waste solvents stored in covered containers only?  Yes  No

Are they disposed of in such a manner that no more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere?  Yes  No

Explain:

Is the solvent exiting from the water separator visually free of water?  Yes  No

If exhaust ventilation used that exceeds 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreaser open area explain:

## **Testing, Monitoring, Recordkeeping, and Reporting**

List the parameters that relate to air emissions for which records are being maintained to determine fees, rule applicability or compliance:

Operating Parameter to be monitored (e.g. flow rate)			
Method of measurement			
Unit of measurement			
The monitoring frequency			
Description of the location of each monitor (e.g., in stack monitor 3 feet from exit)			
Verification procedures to confirm the operational status of the monitoring			
Method of Recordkeeping (e.g. data logger, manual readings)			

If each monitor is not operated at all times the equipment is in operation, explain:

Provide information on the most recent tests, if any. If additional space is needed, attach and label as exhibit 358-3:

Test Date	Test Method	Testing Company	Operating Conditions	Summary of Results

Describe all reporting requirements and provide the title and frequency of report submittals to the Agency:

## Emission Information

Provide the controlled emissions (e.g. the emissions that would result after all control and capture efficacies are accounted for).

Name of Regulated Air Pollutant	<b>Example: Particulate Matter</b>			
Typical Emission Rate (lbs/hr)	<b>4.00</b>			
Maximum Emission Rate (lbs/hr)	<b>5.00</b>			
Typical Emission Rate (ton/year)	<b>14.4</b>			
Maximum Emission Rate (ton/year)	<b>21.9</b>			
Typical Emission Rate Other Terms (ppm, gr/dscf, etc.) _____	<b>0.24 gr/dscf</b>			
Maximum Emission Rate Other Terms (ppm, gr/dscf, etc.) _____	<b>0.3 gr/dscf</b>			
Applicable Rule	<b>35 IAC 212.321</b>			

## **Hazardous Air Pollutant Emission Information**

Provide the controlled HAP emissions (e.g. the emissions that would result after all control and capture efficacies are accounted for).

Name of HAP Emitted	<b>Example: Benzene</b>			
Chemical Abstract Service (CAS) Number	<b>71432</b>			
Typical Emission Rate (lbs/hr)	<b>8.0</b>			
Maximum Emission Rate (lbs/hr)	<b>10.0</b>			
Typical Emission Rate (ton/year)	<b>0.8</b>			
Maximum Emission Rate (ton/year):	<b>1.2</b>			
Typical Emission Rate Other Terms (ppm, gr/dscf, etc.) _____				
Maximum Emission Rate Other Terms (ppm, gr/dscf, etc.) _____				
Applicable Rule	<b>40 CFR 61.302(b), (d)</b>			

## **Exhaust Point Information**

This section should not be completed if emissions are exhausted through air pollution control equipment (form 260-CAAPP and the appropriate 260-CAAPP addendum form must be completed for each item of air pollution control equipment).

Flow Diagram Designation of Exhaust Point: \_\_\_\_\_

Description of exhaust point (stack, vent, indoors, etc.): \_\_\_\_\_

**If the exhaust point discharges indoors, do not complete the remaining items.**

Distance to Nearest Plant Boundary from Exhaust Point Discharge (ft): \_\_\_\_\_

Discharge Height Above Grade (ft): \_\_\_\_\_

Good Engineering Practice (GEP) Height, If Known (ft): \_\_\_\_\_

Diameter of Exhaust Point (ft): \_\_\_\_\_

For a non-circular exhaust point, the diameter is 1.128 times the square root of the area.

Parameter	Maximum	Typical
Exit Gas Flow Rate (acfm)		
Exit Gas Temperature (degree Fahrenheit)		

Direction of exhaust (vertical, lateral, downward): \_\_\_\_\_

List all emission units and control devices served by this exhaust point:

Name	Flow Diagram Designation

The following information need only be supplied if readily available.

Latitude: \_\_\_\_\_

Longitude: \_\_\_\_\_

UTM Zone: \_\_\_\_\_

UTM Vertical (KM): \_\_\_\_\_

UTM Horizontal (KM): \_\_\_\_\_