

## **AIR EMISSION SUMMARY**

The air contaminant sources listed below comprise the Permit to Install **15-1364** for **Harwick Chemical Manufacturing Corp.** located in **STARK** County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P001	Weigh-up room with fabric filter consisting of the following pieces of equipment: 6 weigh stations, 7-30 gallon pony mixers, 3-30 gallon high shear mixers, 1-300 gallon high shear mixer	Compliance with the applicable OAC regulations and the terms and conditions of this permit, and the use of a baghouse.	OAC rule 3745-31-05	the particulate matter emissions rate from the baghouse shall not exceed: 0.02 grain/scf at 10,800 scf/min; 1.85 pounds/hour; 8.1 tons/year
			OAC rule 3745-17-07(A)(1)	BAT is more restrictive
			OAC rule 3745-17-11	BAT is more restrictive
P002	Ribbon blender with fabric filter	Compliance with the applicable OAC regulations and the terms and conditions of this permit, and the use of a baghouse.	OAC rule 3745-31-05	the particulate matter emissions rate from the baghouse shall not exceed: 0.02 grain/scf at 1,500 scf/min; 0.26 pound/hour; 1.14 tons/year
			OAC rule 3745-17-07(A)(1)	BAT is more restrictive
			OAC rule 3745-17-11	BAT is more restrictive

SUMMARY OF EMISSIONS

<u>Pollutant</u>	<u>Tons / Year</u>
PM	9.24

The information contained under the Summary of Emissions section of the Permit to Install is for informational purposes only and is not enforceable.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

**I. Emissions Unit P001**

**A. Operational and/or Production Limitations (P001)**

1. A dust collection system shall be installed which is designed to collect emissions from the six weigh stations, the seven pony mixers and the four high shear mixers. The collection system shall be designed to capture a minimum of 90% of the particulate emissions from the above mentioned equipment. Particulate emissions captured by the dust collection system shall be exhausted to a fabric filter dust collector. Particulate emissions from the fabric filter dust collector outlet shall not exceed 0.02 grains of particulate emissions per cubic foot of exhaust gases and visible particulate emissions from the outlet shall not exceed ten percent opacity as a six-minute average
2. The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while any part of this emissions unit vented to this control device is in operation.

**B. Monitoring and/or Record-Keeping Requirements (P001)**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

**C. Reporting Requirements (P001)**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit required reports in the following manner:

- a. reports shall be submitted to the Canton Local Air Agency; and,
- b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventative measures which have been or will be taken, shall be submitted to the Canton Local Air Agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 15, April 15, July 15, and October 15 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**D. Compliance Methods and Emission Testing Requirements (P001)**

1. Compliance with the emission limitation(s) in section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation

Opacity of emissions from the baghouse shall not exceed 10%, as a 6-minute average.

Applicable Compliance Method

OAC rule 3745-17-03(B) (1)
  - b. Emission Limitation

PM: 0.02 gr/ACFM, 1.85 lbs/hr

Applicable Compliance Method

If required Method 5. Monitoring of the pressure drop across the fabric filter should ensure compliance.
  - c. Emission Limitation

8.1 tons PM/year

Applicable Compliance Method

Multiply the hourly allowable rate times  
8,760 hrs/yr and then divide by 2,000  
lbs/ton.

**E. Miscellaneous (P001)**

1. None

**II. Emissions Unit P002**

**A. Operational and/or Production Limitations (P002)**

1. A dust collection system shall be installed which is designed to collect emissions from the ribbon blender. The collection system shall be designed to capture a minimum of 90% of the particulate emissions from the above mentioned equipment. Particulate emissions captured by the dust collection system shall be exhausted to a fabric filter dust collector. Particulate emissions from the fabric filter dust collector outlet shall not exceed 0.02 grains of particulate emissions per cubic foot of exhaust gases and visible particulate emissions from the outlet shall not exceed ten percent opacity as a six-minute average
2. The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while any part of this emissions unit vented to this control device is in operation.

**B. Monitoring and/or Record-Keeping Requirements (P002)**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

**C. Reporting Requirements (P002)**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit required reports in the following manner:
  - a. reports shall be submitted to the Canton Local Air Agency; and,
  - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission

limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventative measures which have been or will be taken, shall be submitted to the Canton Local Air Agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 15, April 15, July 15, and October 15 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**D. Compliance Methods and Emission Testing Requirements (P002)**

1. Compliance with the emission limitation(s) in section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

Opacity of emissions from the baghouse shall not exceed 10%, as a 6-minute average.

Applicable Compliance Method

OAC rule 3745-17-03(B) (1)

- b. Emission Limitation

PM: 0.02 gr/ACFM, 0.26 lb/hr

Applicable Compliance Method

If required Method 5. Monitoring of the pressure drop across the fabric filter should ensure compliance.

- c. Emission Limitation

1.14 tons PM/year

Applicable Compliance Method

Multiply the hourly allowable rate times 8,760 hrs/yr and then divide by 2,000 lbs/ton.

**E. Miscellaneous (P002)**

1. None

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