

EMISSIONS ACTIVITY CATEGORY FORM AGRICULTURAL CHEMICAL MANUFACTURING OPERATIONS

This form is to be completed for each agricultural chemical manufacturing operation. State/Federal regulations which may apply to Agricultural Chemical Manufacturing Operations are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

1. Reason this form is being submitted (Check one)

New Permit Renewal or Modification of Air Permit Number(s) (e.g. F001)_____

2. Maximum Operating Schedule: _____hours per day; _____days per year

If the schedule is less than 24 hours/day or 365 days/year, what limits the schedule to less than maximum? See instructions for examples. _____

3. Identification of fugitive dust emissions units:

<u>Check Those</u> <u>Emissions Units Present</u>	<u>Fugitive Dust</u> <u>Emissions Units</u>	<u>How many?</u>
?	Storage	_____
?	Bagging	_____
?	Bulk loading	_____
?	Other (describe):	_____
	_____	_____
	_____	_____

4. General process data:

a. Type of solid agricultural chemical produced:

- sodium nitrate
- anhydrous ammonia
- urea
- ammonium nitrate
- potash
- other (describe): _____

b. Form of product: prills granules coated
 uncoated other (describe): _____

c. Maximum plant design production capacity _____tons/hour

d. Maximum hourly production capacity _____tons/hour

e. Annual production rate _____tons/year

f. Type of production process used:

? prilling tower

? granulation

? other (describe): _____

g. Percentage of annual production bulk loaded into railroad cars: _____%

5. Control methods to be used for fugitive dust emissions from agricultural chemical manufacturing operations:

Fugitive Dust Activities	Type of Control Method	Company ID for Control Equipment	Emissions Egress Point ID	Overall Control Efficiency (%)
Storage	? Hood, vent to fabric filter ? Other (describe):			
Bagging	? Hood, vent to fabric filter ? Other (describe):			
Bulk loading	? Telescopic chutes ? Telescopic chutes with aspiration to fabric filter ? Other (describe):			
Other (describe): _____ _____	(describe):			

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR AGRICULTURAL CHEMICAL MANUFACTURING OPERATIONS

GENERAL INSTRUCTIONS:

Provide complete responses to all applicable questions. If an item does not apply to the emissions unit, write in "Not Applicable" or "NA." If the answer is not known, write in "Not Known" or "NK." If you need assistance in understanding a question after reading the instructions below, contact your Ohio EPA District Office or Local Air Agency for assistance. Submittal of an incomplete application will delay application review and processing. In addition, the application may be returned as incomplete if all applicable questions are not answered appropriately.

APPLICABLE REGULATIONS:

The following State and Federal Regulations may be applicable to agricultural chemical manufacturing facilities. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

Federal: 40 CFR 60, (NSPS) Subparts A, T, U, V, W, X, HH, PP, OOO, UUU
40 CFR 63, (MACT) Subparts A, AA, BB, MMM

State: Ohio Administrative Code (OAC) Rules:
3745-31-02 (Permit to Install)
3745-35-02 (Permit to Operate)
3745-17-07 (Control of Visible Particulate Emissions from Stationary Sources)
3745-17-11 (Restrictions on Particulate Matter Emissions from Industrial Processes)

If you would like a copy of these regulations, contact your Ohio EPA District Office or Local Air Agency. State regulations may also be viewed and downloaded from the Ohio EPA website at <http://www.epa.state.oh.us/dapc/regs/regs.html>. Federal regulations may be viewed and downloaded at <http://www.epa.gov/docs/epacfr40/chapt-l.info/subch-C.htm>.

CALCULATING EMISSIONS:

Manufacturers of some types of emissions units and most types of control equipment develop emissions estimates or have stack test data which you can request. Stack testing of the emissions may be done. Emissions unit sampling test data may be either for this emissions unit or a similar one located at the facility or elsewhere. You may develop your own emission factors by mass balance or other knowledge of your process, if you can quantify inputs and outputs accurately. You may be able to do this on a small scale or over a short period of time, if it is not practical during regular production. If you have control equipment, you may be able to quantify the amount of pollutants collected over a known time period or production amount. Any emission factor calculation should include a reference to the origin of the emission factor or control efficiency.

USEPA has developed emission factors for many types of emissions units and published them in a document titled "Compilation of Air Pollutant Emission Factors, AP-42", available from the following website: <http://www.epa.gov/ttn/chief/ap42/index.html>. See Chapter 8 for emissions from specific categories in the Inorganic Chemical Industry.

SPECIFIC INSTRUCTIONS:

This emissions activity category form is to be used for certain operations at agricultural chemical manufacturing facilities which contain fugitive dust emissions units. Other forms may also need to be completed for certain fugitive dust emissions units (e.g., roadways and parking areas) at agricultural chemical manufacturing facilities.

Paragraph (B)(6) of OAC rule 3745-17-01 defines "fugitive dust" as "...particulate matter which is, or was prior to the installation of control equipment, emitted from any source by means other than a stack." Several emissions units at agricultural chemical manufacturing facilities emit particulate matter in such fashion, and the requirements of OAC rules 3745-17-07(B) (Visible particulate emissions of fugitive dust) and 3745-17-08 (Restriction of emission of fugitive dust) may be applicable.

1. Indicate whether this is an application for a new permit or an application for permit renewal. If applying for a permit renewal, provide the 4-character OEPA emissions unit identification number.
2. Provide the maximum number of hours per day and days per year the Agricultural Chemical Manufacturing Operation is expected to operate. The following are examples of why the maximum number of hours per day may be less than 24 or the maximum number of days per year may be less than 365 (this list is not all-inclusive):
 - The facility can only operate during daylight hours.
 - The process can only operate within a certain range of ambient temperatures.
 - The process is limited by another operation (i.e., a bottleneck).
3. Identify the fugitive dust emissions unit(s) at the facility by placing a check mark in the appropriate block adjacent to the respective emissions unit type. If there are other fugitive dust emissions units at the facility which were not specifically listed in item # 3 and for which there are no other emissions activity category forms, please identify such units in the section mark "Other (describe)".
4. Complete the requested general process data in items (a) through (g).
5. For emissions units identified in item # 3 complete the applicable sections for data on methods of capture and control of fugitive dust emission.