



# Air Quality Permit Application Instructions

## Form 5.0: Facility Information

### **INSTRUCTIONS:**

#### Section 5.9: Polyester Resin Plastic Fabrication Facility Information

**IMPORTANT: Do NOT use pencil to fill out the application. Please type responses or print using black ink. If you have any questions, feel free to contact the Nebraska Department of Environmental Quality via the Air Quality Permitting Hotline at (877) 834-0474 or the Air Quality Permitting Section at (402) 471-2189.**

Complete the information on the top of each page. Enter the name of the facility, as it is known in Nebraska. The facility name on every page of the operating permit application should be identical. Enter the date the form was completed. Enter the NDEQ Facility Identification number (ID#) assigned by the Nebraska Department of Environmental Quality. If this is a new facility, leave this box blank. If this is an existing facility, contact the Department if this number is unknown.

#### **1) General Information**

Provide a general explanation of the surface coating facility including the types of materials/products that are produced and/or coated.

#### **2) Current / Anticipated Operating Schedule**

Enter the current and anticipated operating schedule of the facility. The anticipated operating schedule is the schedule anticipated after this permitting action is completed.

#### **3) Current / Anticipated Polyester Resin Plastic Fabrication Rates**

Enter the current and anticipated usage rate of the facility. The anticipated usage rate is the anticipated number of units expected to be fabricated after this permitting action is completed.

#### **4) Polyester Resin Plastic Fabrication Method**

Select the types of Polyester Resin Plastic Product Fabrication method that is/ will be used for gelcoats and resins. This information will be needed to assign emission factors.

For a more in depth explanation regarding the listed methods of open molding of composites please visit:

[Http://www.acmanet.org/ga/reg-emissions.cfm](http://www.acmanet.org/ga/reg-emissions.cfm)

Additional information pertaining to Polyester Resin Plastic Products Fabrication can be found in AP-42, 5<sup>th</sup> Edition, Chapter 4.4 (2/07).

Feel free to contact the Air Division of the Nebraska Department of Environmental Quality if you have any questions.



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### **INSTRUCTIONS (continued):**

#### Section 5.9 Polyester Resin Plastic Fabrication Facility Information

- 5) Indicate the number of fiberglass booths and control devices that currently exist at the facility and how many will exist after this permitting action is complete. If another type(s) of Polyester Resin Plastic Fabrication device exists at the facility, provide the type in the "Other" category and provide the number that exist.
- 6) For each fiberglass booth or similar Polyester Resin Plastic Fabrication area currently located at the facility or proposed to be constructed, indicate the Unit ID#, name of unit, type of unit, and indicate if a control device is/will be associated with the unit. If more than two (2) Polyester Resin Plastic Product Fabrication areas currently exist or are being proposed, then multiple Section 5.9 (page 1) should be completed for the facility in order for all units to be accounted for. If filters are utilized for particulate control, indicate the filter control efficiency.

#### **7) Control Equipment Information**

Indicate if this facility currently includes or will include a piece of control equipment used to control VOC/HAP emissions from the Polyester Resin Plastic Product Fabrication operations.

- 8) If a VOC/HAP control device exists or will be constructed, provide the control equipment identification number that has been assigned to the control device.
- 9) If the control device is existing, enter the date that the control equipment was installed at the facility. You should include a month, day, and year. If the control equipment is proposed, select the N/A box.
- 10) Enter the name of the control equipment or provide brief description of the unit's purpose.

Enter the types of pollutants the control equipment controls (i.e., reduces). If numerous pollutants are controlled, indicate the different pollutants controlled in line with their respective control efficiencies. Enter the control efficiency of the control equipment for each pollutant being controlled. This is the percentage of the pollutant that is controlled/reduced by the control equipment. If more than four pollutants will be controlled by the piece of control equipment, attach additional pages so that all the controlled pollutants are accounted for in the application. If more than one control device is used for VOC/HAP control, attach additional information so that all control equipment is identified. If a control device(s) is utilized, be sure to complete Section 6.5 or 6.6 as appropriate.

#### **11) Requested Emission Limitations**

Polyester Resin Plastic Product Fabrication sources typically request facility-wide VOC and HAP limitations on their actual emissions of HAPs and VOC pollutants in order to provide maximum flexibility regarding the types of products used and in order not to be subject to certain federal regulations. Please indicate the types of VOC and HAP limitations you would like established for your facility.



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### **INSTRUCTIONS (continued):**

Section 5.9 Polyester Resin Plastic Fabrication Facility Information

#### **12) Trimming Areas**

Indicate the number of areas designated to trimming activities that currently exist at the facility and how many will exist after this permitting action is complete. If another type(s) of post fabrication finishing exist at the facility, provide the type in the “Other” category and provide the number that exist.

- 13) For each area designated to trimming and other miscellaneous activities currently located at the facility or proposed to be constructed, indicate the Unit ID#, name of unit, type of unit, and indicate if a control device is/will be associated with the unit. If more than two (2) of these areas currently exist or are being proposed, then multiple Section 5.9 (page 2) should be completed for the facility in order for all units to be accounted for. If filters are utilized for particulate control, indicate the filter control efficiency.

#### **14) Emission Calculations**

**Emission calculations are required to be submitted with this application.** If you are submitting a construction permit application, potential emissions are required to be submitted with the application. If you are submitting an operating permit application, both potential and actual emissions are required to be submitted with the application.

If there are questions on calculating the potential emissions or actual emissions, contact the Department. The Department may be able to send you electronic spreadsheets for ease in calculating the potential emissions. Be sure that the potential emission calculations are attached and select the “YES” box.

Note: Calculations for HAPs Methyl Methacrylate and Styrene can use the UEF emission factors developed by the Composites Fabricators Association.

#### **15) Additional Information**

Please include any additional information associated with the emission point or associated emission units you feel should be submitted with this application.

**Instructions for the Gelcoat, Resin and Solvent information is on the form itself.**