



State of Ohio Environmental Protection Agency

Street Address:  
122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov. Center  
P.O. Box 1049

**CERTIFIED MAIL**

**RE: PERMIT TO INSTALL \*\*\*CORRECTED COPY 9/5/2006\*\*\*  
ASHTABULA COUNTY  
Application No:02-14449**

**DATE: 9/5/2006**

Premix Inc  
Kenna Coltman  
PO Box 281  
North Kingsville, OH 44068

Attached please find a corrected copy of PTI 02-14449 issued **11/28/00**. This corrected copy is being sent due to administrative processing errors and does not affect the enforceability or effective date of the Directors final action. Please note, the appearance of the corrected document may have changed due to changing software or printers (e.g., total number of pages, margins, etc.). Areas of the permit that have been substantively affected by the correction(s) are highlighted in the enclosed "Corrected Copy". I urge you to review these areas in relation to the issued permit document. Please replace the copy provided to you on **11/28/00** with the attached corrected Permit To Install document. *Please note:* No payment is required for processing this corrected copy.

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

NEDO



State of Ohio Environmental Protection Agency

Street A

122 S. I

ing Address:  
Gov. Center  
Box 1049

**RE: FINAL PERMIT TO INSTALL  
ASHTABULA COUNTY  
Application No: 02-14449  
Fac ID: 0204000133**

**CERTIFIED MAIL**

**\*\*\*CORRECTED COPY 9/5/2006\*\*\***

**DATE: 11/28/00**

Premix Inc  
Kenna Coltman  
PO Box 281 3365 East Center St  
North Kingsville, OH 44068

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

**CC: USEPA**

**NEDO**



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: 11/28/2000  
Effective Date: 11/28/2000**

**FINAL PERMIT TO INSTALL 02-14449  
\*\*\*CORRECTED COPY 9/5/2006\*\*\***

Application Number: 02-14449  
Facility ID: 0204000133  
Permit Fee: **\$400**  
Name of Facility: Premix Inc  
Person to Contact: Kenna Coltman  
Address: PO Box 281 3365 East Center St  
North Kingsville, OH 44068

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**3365 East Center St  
North Kingsville, Ohio**

Description of proposed emissions unit(s):  
**Corrected copy to change the Emission Unit ID for P101 to Injection Mold Machine 1.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Premix Inc.  
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## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the

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quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## 2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## 3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

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#### 4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

#### 5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

#### 6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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**7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable

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requirements.

- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

#### **10. Permit-To-Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

#### **11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **12. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

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### 13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

## B. State Only Enforceable Permit-To-Install General Terms and Conditions

### 1. Compliance Requirements

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- 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 state-only required 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 preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or 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 (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 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.)

### 3. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

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**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**6. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**8. Construction Compliance Certification**

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be

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provided to Ohio EPA upon completion of construction but prior to startup of the source.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit-To-Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	5.22

**Premix Inc.**

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**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None.

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P101 - <b>Injection Mold Machine 1.</b>	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.52 lb/hr, 12.5 lbs/day and 2.28 tons/year from the production operation.
	OAC rule 3745-21-07(G)(2)	OC emissions shall not exceed 8 lbs/hr and 40 lbs/day from the production operation. See sections A.2.a. and A.2.b.

**2. Additional Terms and Conditions**

- 2.a The emission limits specified in this rule are less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The emissions of organic materials from the production operation consist of styrene, a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

None.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each day for this emissions unit:

- a. The company identification for each production material employed.
- b. The weight of each production material employed, in pounds.
- c. The weight of all production materials employed, in pounds.
- d. The total OC emission rate for all production materials, in pounds.
- e. The actual number of hours that the emissions unit was in operation.
- f. The average hourly OC emission rate for all production materials, i.e., (d) divided by (e), in pounds per hour (average).

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
  - a. An identification of each day during which the average hourly OC emissions from the production materials exceeded 0.52 pound per hour, and the actual average hourly OC emissions for each such day.
  - b. An identification of each day during which the OC emissions from the production materials exceeded 12.5 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.

#### **V. Testing Requirements**

1. Compliance with the allowable emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a. Emission Limitation: 0.52 lb OC/hr from the production operation.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.1.f. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

Emissions Unit ID: P101

- 1.b. Emission Limitation: 12.5 lbs OC/day from the production operation.

Applicable Compliance Method: Compliance shall be determined in accordance with the following method:

$$ES(\text{lbs/day}) = (\text{Summation of } P_i) \times EF.$$

where:

$ES(\text{lbs/day})$  = the OC emissions as styrene from production operations, in pounds per day.

$P_i$  = the production rate of mold compound  $i$ , in pounds per day.

$EF$  = emission factor for styrene emissions from mold presses, which is 0.00134 pound per pound of mold compound, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

- 1.c. Emission Limitation: 2.28 TPY OC from the production operation.

Applicable Compliance Method: To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from production materials, as specified in section A.V.1.b. of this permit for the calendar year, divided by 2000 pounds/ton.

2. Any determination of OC content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

## **VI. Miscellaneous Requirements**

None.

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P101 - Lab injection mold press #1 for fiberglass reinforced plastic parts		Compliance with the Air Toxic Policy as specified in sections B.VI.1 to B.VI.4.

**2. Additional Terms and Conditions**

- 2.a None.

**II. Operational Restrictions**

None.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
  - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

**2. Air Toxic Policy Clarifying Language**

This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used

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Emissions Unit ID: P101

and the design parameters of the emissions unit's exhaust system(s), as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Emission Unit(s) ID	Pollutant	Threshold Limit Value (TLV) ( $\mu\text{g}/\text{m}^3$ )	Maximum Emissions (lbs/hr)	Predicted 1 Hour Maximum Ground Level Concentration ( $\mu\text{g}/\text{m}^3$ )	Maximum Acceptable Ground Level Concentration (MAGLC), ( $\mu\text{g}/\text{m}^3$ )
P101	Styrene	85,000	0.52	69.68	
P102	Styrene	85,000	0.67	89.78	
All styrene emissions	Styrene	85,000		159.46	2,024

3. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":
  - a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
  - b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
  - c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
  - d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.
4. The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:
  - a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
  - b. the permittee can continue to comply with the allowable emission limitations specified in

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its permit to install; and

- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.
5. For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

**IV. Reporting Requirements**

None.

**V. Testing Requirements**

None.

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P102 - Lab injection mold press #2 for fiberglass reinforced plastic parts	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.67 lb/hr, 16.1 lbs/day and 2.94 tons/year from the production operation.
	OAC rule 3745-21-07(G)(2)	OC emissions shall not exceed 8 lbs/hr and 40 lbs/day from the production operation. See sections A.2.a. and A.2.b.

**2. Additional Terms and Conditions**

- 2.a The emission limits specified in this rule are less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The emissions of organic materials from the production operation consist of styrene, a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

None.

**III. Monitoring and/or Recordkeeping Requirements**

- 1. The permittee shall collect and record the following information for each day for this emissions unit:

Emissions Unit ID: P102

- a. The company identification for each production material employed.
- b. The weight of each production material employed, in pounds.
- c. The weight of all production materials employed, in pounds.
- d. The total OC emission rate for all production materials, in pounds.
- e. The actual number of hours that the emissions unit was in operation.
- f. The average hourly OC emission rate for all production materials, i.e., (d) divided by (e), in pounds per hour (average).

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
  - a. An identification of each day during which the average hourly OC emissions from the production materials exceeded 0.67 pound per hour, and the actual average hourly OC emissions for each such day.
  - b. An identification of each day during which the OC emissions from the production materials exceeded 16.1 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.

#### V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a. Emission Limitation: 0.67 lb OC/hr from the production operation.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.1.f. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

- 1.b. Emission Limitation: 16.1 lbs OC/day from the production operation.

Applicable Compliance Method: Compliance shall be determined in accordance with the

following method:

$$ES(\text{lbs/day}) = (\text{Summation of } P_i) \times EF.$$

where:

$ES(\text{lbs/day})$  = the OC emissions as styrene from production operations, in pounds per day.

$P_i$  = the production rate of mold compound  $i$ , in pounds per day.

$EF$  = emission factor for styrene emissions from mold presses, which is 0.00134 pound per pound of mold compound, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

- 1.c Emission Limitation: 2.94 TPY OC from the production operation.

Applicable Compliance Method: To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from production materials, as specified in section A.V.1.b. of this permit for the calendar year, divided by 2000 pounds/ton.

2. Any determination of OC content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

## VI. Miscellaneous Requirements

None.

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P102 - Lab injection mold press #2 for fiberglass reinforced plastic parts		Compliance with the Air Toxic Policy as specified in sections B.VI.1 to B.VI.4.

**2. Additional Terms and Conditions**

- 2.a None.

**II. Operational Restrictions**

None.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
  - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

**IV. Reporting Requirements**

None.

**V. Testing Requirements**

None.

**VI. Miscellaneous Requirements**1. Air Toxic Policy Clarifying Language

This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system(s), as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Emission Unit(s) ID	Pollutant	Threshold Limit Value (TLV) ( $\mu\text{g}/\text{m}^3$ )	Maximum Emis-sions (lbs/hr)	Predicted 1 Hour Maximum Ground Level Concen-tration ( $\mu\text{g}/\text{m}^3$ )	Maximum Acceptable Ground Level Concentration (MAGLC), ( $\mu\text{g}/\text{m}^3$ )
P101	Styrene	85,000	0.52	69.68	
P102	Styrene	85,000	0.67	89.78	
All styrene emissions	Styrene	85,000		159.46	2,024

2. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":
- changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
  - changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
  - changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and

- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.
3. The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:
    - a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
    - b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and
    - c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.
  4. For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.