

Synthetic Minor Determination and/or **Netting Determination**

Permit To Install **04-01276**

A. Source Description

This permit to install is for the modification of two existing sources. These processes currently batch mix a water based solution with solids to create a material used to make casting sands for foundry molds. Open-top reactor vessels with covers are used for mixing of the materials. The modification will allow the use of solvent based solutions in the two existing sources. Organic compound (OC) and particulate emissions (PE) will be captured and vented to a baghouse. No OC emissions were included in the existing permits for these sources. The modification adds OC allowables.

B. Facility Emissions and Attainment Status

This facility is a minor source for carbon monoxide, nitrogen oxides, organic compounds, particulates and sulfur dioxides. It is located in the City of Toledo in Lucas County. This location has the following status:

Pollutant	Significant Net Emission Increase Levels	Attainment Status
CO	100 TPY	unclassifiable
NO _x	40 TPY	unclassifiable
O ₃ (VOC)	40 TPY	attainment
PE	25 TPY	not applicable
PM10	15 TPY	unclassifiable
SO ₂	40 TPY	nonattainment
Pb	0.6 TPY	not designated

PTI 04-1092, issued October 12, 2000, restricted the facility to 33 tons per year OC, 25 tons per year of all HAPs, 10 tons per year of any individual HAP and 175 pounds per year of formaldehyde.

C. Source Emissions

Emissions units P002, P005 and P018 have current appropriate permit terms and conditions to assure a maximum permit allowable of 33 tons of OC per year total as a facility-wide restriction. Contemporaneous increases from PTI 04-01092 issued October 12, 2000 were 19 tons of OC and 0.41 tons of PE. The modified permits for P011 and P013 will add 13 tons of VOC per year and 0.04 tons of PE to the plant wide allowables.

D. Conclusion

Federally enforceable permit limitations will restrict the facility to 46 tons per year OC, 25 tons per year of all HAPs, 10 tons per year of any individual HAP and 175 pounds per year of formaldehyde. At this level the facility will remain a minor source for PSD and Title V purposes.



State of Ohio Environmental Protection Agency

RE: DRAFT PERMIT TO INSTALL CERTIFIED MAIL
LUCAS COUNTY
Application No: 04-01276

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

DATE: 11/27/2001

Borden Chemical Inc
Jeff Krause
10330 W Roosevelt Rd
Westchester, IL 60154

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$600** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Thomas G. Rigo
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

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STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install
Terms and Conditions

Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance

DRAFT PERMIT TO INSTALL 04-01276

Application Number: 04-01276
APS Premise Number: 0448011215
Permit Fee: **To be entered upon final issuance**
Name of Facility: Borden Chemical Inc
Person to Contact: Jeff Krause
Address: 10330 W Roosevelt Rd
Westchester, IL 60154

Location of proposed air contaminant source(s) [emissions unit(s)]:

**4243 South Ave
Toledo, Ohio**

Description of proposed emissions unit(s):

Modify Permit to Install 04-1092 issued 10/12/2000 to add the ability to use photochemically reactive compounds for two sources, P011 and P013.

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

Borden Chemical Inc
PTI Application: 04-01276
Issued: To be entered upon final issuance
Part I - GENERAL TERMS AND CONDITIONS

Facility ID: 0448011215

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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.10 below if no deviations occurred during the quarter.

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- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., 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. 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.

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.

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.

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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 reissuance, or modification, or for denial of a permit renewal application.
- 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, reopened, 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, reopening 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.

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 this Permit To Install.

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 of 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, the State, and citizens 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

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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 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

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3745-77-08(C)(3)(d).

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- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35 , the source(s) identified in this Permit To Install 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 thirty (30) 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.

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

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping 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 quarterly, i.e., 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.

4. 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.

5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install 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

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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.

6. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

7. 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.

8. 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).

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9. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) 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 provided to Ohio EPA upon completion of construction but prior to startup of the source.

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10. 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., 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>
PE	0.71 (0.04 increase)
OC	46 (13 increase)

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Borden Chemical Inc

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Facility ID: 0448011215

Borde

PTI A

Emissions Unit ID: **P002**

Issued: To be entered upon final issuance

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

Borde

PTI A

Emissions Unit ID:P002

Issued: To be entered upon final issuance**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. 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>
P002 - solvent paste machine No.8 (200 gallons), also water paste at times, Baker Perkins mixer (10,000 lbs/hr) with fabric filtration. modification of PTI 04-01092	OAC rule 3745-31-05(A)(3)	0.03 pound per hour of particulate emissions (PE), 0.13 ton per year of PE, 39 pounds per hour of organic compounds (OC), and see Section II.A.2.a and 2.b.
	OAC rule 3745-31-05(D)	46 tons OC per rolling 12-month period facility-wide, and see Section II.A.2.c and 2.d.
	OAC rule 3745-17-07(B)(1)	20 per cent opacity from fugitive sources as a 3-minute average.
	OAC rule 3745-17-08(B), (B)(3)	No visible emissions from the stack.
	OAC rule 3745-21-07(G)(9)(c), (d)	See Section II.A.2.e.

2. Additional Terms and Conditions

- 2.a The terms and conditions of this permit supercede those identified in PTI 04-01092 issued October 12, 2000.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B), (B)(3) and OAC rule 3745-21-07(G)(9)(c), (d).

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- 2.c The combined facility-wide emissions of formaldehyde shall not exceed 175 pounds as a rolling 12-month summation.
- 2.d Combined facility-wide emissions shall not exceed 10 tons individual, or 25 tons total, of hazardous air pollutants (HAP) in any rolling 12-month period.
- 2.e The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, the Ohio EPA field office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
- 2. The permittee shall collect and record the following information for each day for the mixing operation:
 - a. The company identification for each liquid organic material employed.
 - b. Documentation demonstrating that each liquid organic material, as employed, is not a photochemically reactive material.
 - c. The number of gallons of each liquid organic material employed.
 - d. The organic compound content of each liquid organic material, in pounds per gallon.
 - e. The total organic compound emission rate for all liquid organic materials, in pounds per day, calculated as a summation of (c) times (d) for all liquid organic materials employed.

- f. The total number of hours the emissions unit was in operation.
- g. The average hourly organic compound emission rate for all liquid organic materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

- 3. The permittee shall collect and record the following information for each month for all emissions units:
 - a. The combined facility-wide emissions of organic compounds for all emissions units, in tons as a rolling 12-month summation.
 - b. The company identification for each HAP containing material employed.
 - c. The number of gallons of each HAP containing material employed.
 - d. The individual HAP content of each HAP containing material, in pounds per gallon.
 - e. The facility-wide summation of each individual HAP emission, and a total of the combined HAP emissions, for all HAP containing materials, in pounds or tons per rolling 12-month period.
- 4. The permits to install for emissions units P001, P002, P003, P005, P008, P010, P018, P019, P020, P021, P022 and P023 were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutants:
 - a. Pollutant: isopropanol

TLV ($\mu\text{g}/\text{m}^3$): 983,000

Maximum Hourly Emission Rate (lbs/hr): 88.3

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 15,500

MAGLC ($\mu\text{g}/\text{m}^3$): 23,400

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Borde

PTI A

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b. Pollutant: hexane

TLV ($\mu\text{g}/\text{m}^3$): 176,000

Maximum Hourly Emission Rate (lbs/hr): 27.2

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,780

MAGLC ($\mu\text{g}/\text{m}^3$): 4,190

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- c. Pollutant: methanol
 - TLV ($\mu\text{g}/\text{m}^3$): 262,000
 - Maximum Hourly Emission Rate (lbs/hr): 15.7
 - Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 2,750
 - MAGLC ($\mu\text{g}/\text{m}^3$): 6,240

- d. Pollutant: naphtha
 - TLV ($\mu\text{g}/\text{m}^3$): 1,420,000
 - Maximum Hourly Emission Rate (lbs/hr): 28.5
 - Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,990
 - MAGLC ($\mu\text{g}/\text{m}^3$): 33,800

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- e. changes in the composition of the materials used (typically for coatings or cleanup materials), 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 previously modeled;
- f. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- g. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

D. Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the liquid organic materials and photochemically reactive cleanup materials exceeded the hourly emission limitation, and the actual average hourly organic compound emissions for each such day.
 - b. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined organic compound emissions from all emissions units exceeded the rolling 12-month limitation, and the actual organic compound emissions for each such rolling 12-month period.
 - c. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined formaldehyde emissions from all emissions units exceeded 175 pounds per calendar year, and the year-to-date actual formaldehyde emissions for each such month.
 - d. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of any individual HAP exceeded 10 tons per 12-month rolling period, and the 12-month summation of any such HAP emissions for each such month.
 - e. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of all HAPs exceeded 25 tons per 12-month rolling period, and the 12-month summation of HAP emissions for each such month.
3. The permittee shall submit deviation (excursion) reports in accordance with paragraph 3.b of the General Terms and Conditions of this permit.

E. Testing Requirements

Compliance with the emission limitations in section II.A.1. of these terms and conditions shall be determined in accordance with the following methods:

1. Emission limitation:

20 per cent opacity from fugitive sources as a 3-minute average.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures of Method 9 of 40 CFR Part 60 Appendix A.

2. Emission limitation:

no visible emissions from the stack.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(7) using the methods and procedures of Method 22 of 40 CFR Part 60 Appendix A.

3. Emission limitation:

0.03 pound per hour of particulates.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(10) using the methods and procedures of Method 5 of 40 CFR Part 60 Appendix A.

4. Emission limitation:

0.13 ton per year of particulates.

Applicable compliance method:

This limitation was established by multiplying the 0.03 pound per hour emission rate by a maximum operating schedule of 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

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5. Emission limitation:

39 pounds per hour of organic compounds (OC).

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials. If required, the permittee shall demonstrate compliance through stack testing performed in accordance with the methods and procedures of Method 25 of 40 CFR Part 60, Appendix A.

6. Emission limitation:

46 tons per year OC facility-wide.

Applicable compliance method:

compliance shall be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

7. Emission limitation:

the combined facility-wide emissions of formaldehyde shall not exceed 175 pounds per year, and the combined facility-wide emissions of hazardous air pollutants (HAPs) shall not exceed 10 tons individual, or 25 tons total, in any 12-month rolling period.

Applicable compliance method:

compliance shall be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data may be used to determine the chemical contents of the materials.

F. Miscellaneous Requirements

None

**Borde
PTI A**

Emissions Unit ID: **P005**

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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>
P005 - solvent based paired Cowles mixers No.10 (700 gallons) and No.11 (350 gallons), only one can operate at a time, (24,000 lbs/hr) with fabric filtration. modification of PTI 04-01092	OAC rule 3745-31-05(A)(3)	0.06 pound per hour of particulate emissions (PE), 0.28 ton per year of PE, 66 pounds per hour of organic compounds (OC), and see Section II.A.2.a and 2.b.
	OAC rule 3745-31-05(D)	46 tons OC per rolling 12-month period facility-wide, and see Section II.A.2.c and 2.d.
	OAC rule 3745-17-07(B)(1)	20 per cent opacity from fugitive sources as a 3-minute average.
	OAC rule 3745-17-08(B), (B)(3)	No visible emissions from the stack.
	OAC rule 3745-21-07(G)(9)(c), (d)	See Section II.A.2.e.

2. Additional Terms and Conditions

- 2.a** The terms and conditions of this permit supercede those identified in PTI 04-01092 issued October 12, 2000.
- 2.b** The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B), (B)(3) and OAC rule 3745-21-07(G)(9)(c), (d).

- 2.c** The combined facility-wide emissions of formaldehyde shall not exceed 175 pounds as a rolling 12-month summation.
- 2.d** Combined facility-wide emissions shall not exceed 10 tons individual, or 25 tons total, of hazardous air pollutants (HAP) in any rolling 12-month period.
- 2.e** The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, the Ohio EPA field office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
- 2. The permittee shall collect and record the following information for each day for the mixing operation:
 - a. The company identification for each liquid organic material employed.
 - b. Documentation demonstrating that each liquid organic material, as employed, is not a photochemically reactive material.
 - c. The number of gallons of each liquid organic material employed.
 - d. The organic compound content of each liquid organic material, in pounds per gallon.
 - e. The total organic compound emission rate for all liquid organic materials, in pounds per day, calculated as a summation of (c) times (d) for all liquid organic materials employed.

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- f. The total number of hours the emissions unit was in operation.
- g. The average hourly organic compound emission rate for all liquid organic materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

- 3. The permittee shall collect and record the following information for each month for all emissions units:
 - a. The combined facility-wide emissions of organic compounds for all emissions units, in tons as a rolling 12-month summation.
 - b. The company identification for each HAP containing material employed.
 - c. The number of gallons of each HAP containing material employed.
 - d. The individual HAP content of each HAP containing material, in pounds per gallon.
 - e. The facility-wide summation of each individual HAP emission, and a total of the combined HAP emissions, for all HAP containing materials, in pounds or tons per rolling 12-month period.
- 4. The permits to install for emissions units P001, P002, P003, P005, P008, P010, P018, P019, P020, P021, P022 and P023 were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutants:
 - a. Pollutant: isopropanol

TLV ($\mu\text{g}/\text{m}^3$): 983,000

Maximum Hourly Emission Rate (lbs/hr): 88.3

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 15,500

MAGLC ($\mu\text{g}/\text{m}^3$): 23,400

b. Pollutant: hexane

TLV ($\mu\text{g}/\text{m}^3$): 176,000

Maximum Hourly Emission Rate (lbs/hr): 27.2

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,780

MAGLC ($\mu\text{g}/\text{m}^3$): 4,190

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- c. Pollutant: methanol
 - TLV ($\mu\text{g}/\text{m}^3$): 262,000
 - Maximum Hourly Emission Rate (lbs/hr): 15.7
 - Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 2,750
 - MAGLC ($\mu\text{g}/\text{m}^3$): 6,240

- d. Pollutant: naphtha
 - TLV ($\mu\text{g}/\text{m}^3$): 1,420,000
 - Maximum Hourly Emission Rate (lbs/hr): 28.5
 - Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,990
 - MAGLC ($\mu\text{g}/\text{m}^3$): 33,800

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- e. changes in the composition of the materials used (typically for coatings or cleanup materials), 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 previously modeled;
- f. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- g. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

D. Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the liquid organic materials and photochemically reactive cleanup materials exceeded the hourly emission limitation, and the actual average hourly organic compound emissions for each such day.
 - b. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined organic compound emissions from all emissions units exceeded the rolling 12-month limitation, and the actual organic compound emissions for each such rolling 12-month period.
 - c. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined formaldehyde emissions from all emissions units exceeded 175 pounds per calendar year, and the year-to-date actual formaldehyde emissions for each such month.
 - d. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of any individual HAP exceeded 10 tons per 12-month rolling period, and the 12-month summation of any such HAP emissions for each such month.
 - e. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of all HAPs exceeded 25 tons per 12-month rolling period, and the 12-month summation of HAP emissions for each such month.

3. The permittee shall submit deviation (excursion) reports in accordance with paragraph 3.b of the General Terms and Conditions of this permit.

E. Testing Requirements

Compliance with the emission limitations in section II.A.1. of these terms and conditions shall be determined in accordance with the following methods:

1. Emission limitation:

20 per cent opacity from fugitive sources as a 3-minute average.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures of Method 9 of 40 CFR Part 60 Appendix A.

2. Emission limitation:

no visible emissions from the stack.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(7) using the methods and procedures of Method 22 of 40 CFR Part 60 Appendix A.

3. Emission limitation:

0.06 pound per hour of PE.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(10) using the methods and procedures of Method 5 of 40 CFR Part 60 Appendix A.

4. Emission limitation:

28 tons per year of PE.

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Applicable compliance method:

This limitation was established by multiplying the 0.06 pound per hour emission rate by a maximum operating schedule of 8760 hours/year and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

5. Emission limitation:

66 pounds per hour of organic compounds (OC).

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials. If required, the permittee shall demonstrate compliance through stack testing performed in accordance with the methods and procedures of Method 25 of 40 CFR Part 60, Appendix A.

6. Emission limitation:

46 tons per year OC facility-wide.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

7. Emission limitation:

the combined facility-wide emissions of formaldehyde shall not exceed 175 pounds per year, and the combined facility-wide emissions of hazardous air pollutants (HAPs) shall not exceed 10 tons individual, or 25 tons total, in any 12-month rolling period.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data may be used to determine the chemical contents of the materials.

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F. Miscellaneous Requirements

Emissions Unit ID: **P005**

None

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Emissions Unit ID: P011

Issued: To be entered upon final issuance**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. 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>
P011 - solvent drum mixer No.15 (55 gallons), Lightning mixer (1,900 lbs/hr) with fabric filtration. Modification of PTI 04-01092	OAC rule 3745-31-05(A)(3)	0.01 pound per hour of particulate emissions (PE), 0.02 ton per year of PE, 5.2 pounds per hour of organic compounds (OC), and see Section II.A.2.a and 2.b.
	OAC rule 3745-31-05(D)	46 tons OC per rolling 12-month period facility-wide, and see Section II.A.2.c and 2.d.
	OAC rule 3745-17-07(B)(1)	20 per cent opacity from fugitive sources as a 3-minute average.
	OAC rule 3745-17-08(B), (B)(3)	No visible emissions from the stack.
	OAC rule 3745-21-07(G)(9)(c), (d)	See Section II.A.2.e.

2. Additional Terms and Conditions

- 2.a** The terms and conditions of this permit supercede those identified in PTI 04-01092 issued October 12, 2000.
- 2.b** The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B), (B)(3) and OAC rule 3745-21-07(G)(9)(c), (d).

- 2.c** The combined facility-wide emissions of formaldehyde shall not exceed 175 pounds as a rolling 12-month summation.
- 2.d** Combined facility-wide emissions shall not exceed 10 tons individual, or 25 tons total, of hazardous air pollutants (HAP) in any rolling 12-month period.
- 2.e** The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, the Ohio EPA field office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
- 2. The permittee shall collect and record the following information for each day for the mixing operation:
 - a. The company identification for each liquid organic material employed.
 - b. Documentation demonstrating that each liquid organic material, as employed, is not a photochemically reactive material.
 - c. The number of gallons of each liquid organic material employed.
 - d. The organic compound content of each liquid organic material, in pounds per gallon.
 - e. The total organic compound emission rate for all liquid organic materials, in pounds per day, calculated as a summation of (c) times (d) for all liquid organic materials employed.

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- f. The total number of hours the emissions unit was in operation.
- g. The average hourly organic compound emission rate for all liquid organic materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

- 3. The permittee shall collect and record the following information for each month for all emissions units:
 - a. The combined facility-wide emissions of organic compounds for all emissions units, in tons as a rolling 12-month summation.
 - b. The company identification for each HAP containing material employed.
 - c. The number of gallons of each HAP containing material employed.
 - d. The individual HAP content of each HAP containing material, in pounds per gallon.
 - e. The facility-wide summation of each individual HAP emission, and a total of the combined HAP emissions, for all HAP containing materials, in pounds or tons per rolling 12-month period.
- 4. The permits to install for emissions units P011 and P013 were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutants:
 - a. Pollutant: isopropanol

TLV ($\mu\text{g}/\text{m}^3$): 983,000

Maximum Hourly Emission Rate (lbs/hr): 34.2

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 2,500

MAGLC ($\mu\text{g}/\text{m}^3$): 23,400

b. Pollutant: hexane

TLV ($\mu\text{g}/\text{m}^3$): 176,000

Maximum Hourly Emission Rate (lbs/hr): 21.0

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 1,510

MAGLC ($\mu\text{g}/\text{m}^3$): 4,190

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c. Pollutant: naphtha

TLV ($\mu\text{g}/\text{m}^3$): 1,420,000

Maximum Hourly Emission Rate (lbs/hr): 15.9

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 1,160MAGLC ($\mu\text{g}/\text{m}^3$): 33,800

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- d. changes in the composition of the materials used (typically for coatings or cleanup materials), 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 previously modeled;
- e. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- f. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

D. Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily

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Emissions Unit ID: **P011**

Issued: To be entered upon final issuance

record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

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2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the liquid organic materials and photochemically reactive cleanup materials exceeded the hourly emission limitation, and the actual average hourly organic compound emissions for each such day.
 - b. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined organic compound emissions from all emissions units exceeded the rolling 12-month limitation, and the actual organic compound emissions for each such rolling 12-month period.
 - c. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined formaldehyde emissions from all emissions units exceeded 175 pounds per calendar year, and the year-to-date actual formaldehyde emissions for each such month.
 - d. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of any individual HAP exceeded 10 tons per 12-month rolling period, and the 12-month summation of any such HAP emissions for each such month.
 - e. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of all HAPs exceeded 25 tons per 12-month rolling period, and the 12-month summation of HAP emissions for each such month.
3. The permittee shall submit deviation (excursion) reports in accordance with paragraph 3.b of the General Terms and Conditions of this permit.

E. Testing Requirements

Compliance with the emission limitations in section II.A.1. of these terms and conditions shall be determined in accordance with the following methods:

1. Emission limitation:

20 per cent opacity from fugitive sources as a 3-minute average.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures of Method 9 of 40 CFR Part 60 Appendix A.

2. Emission limitation:

no visible emissions from the stack.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(7) using the methods and procedures of Method 22 of 40 CFR Part 60 Appendix A.

3. Emission limitation:

0.01 pound per hour of PE.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(10) using the methods and procedures of Method 5 of 40 CFR Part 60 Appendix A.

4. Emission limitation:

0.02 ton per year of PE.

Applicable compliance method:

This limitation was established by multiplying the 0.02 pound per hour emission rate by a maximum operating schedule of 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

5. Emission limitation:

5.2 pounds per hour of OC.

Applicable compliance method:

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compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials. If required, the permittee shall demonstrate compliance through stack testing performed in accordance with the methods and procedures of Method 25 of 40 CFR Part 60, Appendix A.

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6. Emission limitation:

46 tons per year OC facility-wide.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

7. Emission limitation:

the combined facility-wide emissions of formaldehyde shall not exceed 175 pounds per year, and the combined facility-wide emissions of hazardous air pollutants (HAPs) shall not exceed 10 tons individual, or 25 tons total, in any 12-month rolling period.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data may be used to determine the chemical contents of the materials.

F. Miscellaneous Requirements

None

**Borde
PTI A**

Emissions Unit ID: **P013**

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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>
P013 - solvent paste machine (two 700 gallons), "Small Shar" mixer (24,000 lbs/hr) with fabric filtration. modification of PTI 04-01092	OAC rule 3745-31-05(A)(3)	0.06 pound per hour of particulate emissions (PE), 0.28 ton per year of PE, 66 pounds per hour of organic compounds (OC), and see Section II.A.2.a and 2.b.
	OAC rule 3745-31-05(D)	46 tons OC per rolling 12-month period facility-wide, and see Section II.A.2.c and 2.d.
	OAC rule 3745-17-07(B)(1)	20 per cent opacity from fugitive sources as a 3-minute average.
	OAC rule 3745-17-08(B), (B)(3)	No visible emissions from the stack.
	OAC rule 3745-21-07(G)(9)(c), (d)	See Section II.A.2.e.

2. Additional Terms and Conditions

- 2.a The terms and conditions of this permit supercede those identified in PTI 04-01092 issued October 12, 2000.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B), (B)(3) and OAC rule 3745-21-07(G)(9)(c), (d).

- 2.c** The combined facility-wide emissions of formaldehyde shall not exceed 175 pounds as a rolling 12-month summation.
- 2.d** Combined facility-wide emissions shall not exceed 10 tons individual, or 25 tons total, of hazardous air pollutants (HAP) in any rolling 12-month period.
- 2.e** The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, the Ohio EPA field office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
- 2. The permittee shall collect and record the following information for each day for the mixing operation:
 - a. The company identification for each liquid organic material employed.
 - b. Documentation demonstrating that each liquid organic material, as employed, is not a photochemically reactive material.
 - c. The number of gallons of each liquid organic material employed.
 - d. The organic compound content of each liquid organic material, in pounds per gallon.
 - e. The total organic compound emission rate for all liquid organic materials, in pounds per day, calculated as a summation of (c) times (d) for all liquid organic materials employed.

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- f. The total number of hours the emissions unit was in operation.
- g. The average hourly organic compound emission rate for all liquid organic materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each month for all emissions units:
 - a. The combined facility-wide emissions of organic compounds for all emissions units, in tons as a rolling 12-month summation.
 - b. The company identification for each HAP containing material employed.
 - c. The number of gallons of each HAP containing material employed.
 - d. The individual HAP content of each HAP containing material, in pounds per gallon.
 - e. The facility-wide summation of each individual HAP emission, and a total of the combined HAP emissions, for all HAP containing materials, in pounds or tons per rolling 12-month period.

4. The permits to install for emissions units P011 and P013 were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutants:
 - a. Pollutant: isopropanol
 - TLV ($\mu\text{g}/\text{m}^3$): 983,000
 - Maximum Hourly Emission Rate (lbs/hr): 34.2
 - Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 2,500

MAGLC ($\mu\text{g}/\text{m}^3$): 23,400

b. Pollutant: hexane

TLV ($\mu\text{g}/\text{m}^3$): 176,000

Maximum Hourly Emission Rate (lbs/hr): 21.0

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 1,510

MAGLC ($\mu\text{g}/\text{m}^3$): 4,190

Issued: To be entered upon final issuance

c. Pollutant: naphtha

TLV ($\mu\text{g}/\text{m}^3$): 1,420,000

Maximum Hourly Emission Rate (lbs/hr): 15.9

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 1,160

MAGLC ($\mu\text{g}/\text{m}^3$): 33,800

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- d. changes in the composition of the materials used (typically for coatings or cleanup materials), 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 previously modeled;
- e. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- f. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

D. Reporting Requirements

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1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the liquid organic materials and photochemically reactive cleanup materials exceeded the hourly emission limitation, and the actual average hourly organic compound emissions for each such day.
 - b. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined organic compound emissions from all emissions units exceeded the rolling 12-month limitation, and the actual organic compound emissions for each such rolling 12-month period.
 - c. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined formaldehyde emissions from all emissions units exceeded 175 pounds per calendar year, and the year-to-date actual formaldehyde emissions for each such month.
 - d. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of any individual HAP exceeded 10 tons per 12-month rolling period, and the 12-month summation of any such HAP emissions for each such month.
 - e. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of all HAPs exceeded 25 tons per 12-month rolling period, and the 12-month summation of HAP emissions for each such month.
3. The permittee shall submit deviation (excursion) reports in accordance with paragraph 3.b of the General Terms and Conditions of this permit.

E. Testing Requirements

Compliance with the emission limitations in section II.A.1. of these terms and conditions shall be determined in accordance with the following methods:

1. Emission limitation:

20 per cent opacity from fugitive sources as a 3-minute average.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures of Method 9 of 40 CFR Part 60 Appendix A.

2. Emission limitation:

no visible emissions from the stack.

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(7) using the methods and procedures of Method 22 of 40 CFR Part 60 Appendix A.

3. Emission limitation:

0.06 pound per hour of PE

Applicable compliance method:

If required, compliance shall be demonstrated through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(10) using the methods and procedures of Method 5 of 40 CFR Part 60 Appendix A.

4. Emission limitation:

0.28 ton per year of PE.

Applicable compliance method:

This limitation was established by multiplying the 0.06 pound per hour emission rate by a maximum operating schedule of 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

5. Emission limitation:

Borde**PTI A**Emissions Unit ID: **P013****Issued: To be entered upon final issuance**

66 pounds per hour of OC.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials. If required, the permittee shall demonstrate compliance through stack testing performed in accordance with the methods and procedures of Method 25 of 40 CFR Part 60, Appendix A.

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6. Emission limitation:

46 tons per year OC facility-wide.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

7. Emission limitation:

the combined facility-wide emissions of formaldehyde shall not exceed 175 pounds per year, and the combined facility-wide emissions of hazardous air pollutants (HAPs) shall not exceed 10 tons individual, or 25 tons total, in any 12-month rolling period.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data may be used to determine the chemical contents of the materials.

F. Miscellaneous Requirements

None

Borde

PTI A

Emissions Unit ID: P019

Issued: To be entered upon final issuance**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. 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>
P019 - let down station No.9 (1,000 gallons), solvent paste mixer (8,000 lbs/hr) with no control. modification of PTI 04-01092	OAC rule 3745-31-05(A)(3)	10 pounds per hour of organic compounds (OC), and see Section II.A.2.a and 2.b.
	OAC rule 3745-31-05(D)	46 tons OC per rolling 12-month period facility-wide, and see Section II.A.2.c and 2.d.
	OAC rule 3745-21-07(G)(9)(c), (d)	See Section II.A.2.e.

2. Additional Terms and Conditions

- 2.a** The terms and conditions of this permit supercede those identified in PTI 04-01092 issued October 12, 2000.
- 2.b** The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(9)(c), (d).
- 2.c** The combined facility-wide emissions of formaldehyde shall not exceed 175 pounds as a rolling 12-month summation.
- 2.d** Combined facility-wide emissions shall not exceed 10 tons individual, or 25 tons total, of hazardous air pollutants (HAP) in any rolling 12-month period.
- 2.e** The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, the Ohio EPA field office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the mixing operation:
 - a. The company identification for each liquid organic material employed.
 - b. Documentation demonstrating that each liquid organic material, as employed, is not a photochemically reactive material.
 - c. The number of gallons of each liquid organic material employed.
 - d. The organic compound content of each liquid organic material, in pounds per gallon.
 - e. The total organic compound emission rate for all liquid organic materials, in pounds per day, calculated as a summation of (c) times (d) for all liquid organic materials employed.
 - f. The total number of hours the emissions unit was in operation.
 - g. The average hourly organic compound emission rate for all liquid organic materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

2. The permittee shall collect and record the following information for each month for all emissions units:
 - a. The combined facility-wide emissions of organic compounds for all emissions units, in tons

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as a rolling 12-month summation.

- b. The company identification for each HAP containing material employed.
 - c. The number of gallons of each HAP containing material employed.
 - d. The individual HAP content of each HAP containing material, in pounds per gallon.
 - e. The facility-wide summation of each individual HAP emission, and a total of the combined HAP emissions, for all HAP containing materials, in pounds or tons per rolling 12-month period.
3. The permits to install for emissions units P001, P002, P003, P005, P008, P010, P018, P019, P020, P021, P022 and P023 were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutants:
- a. Pollutant: isopropanol

TLV ($\mu\text{g}/\text{m}^3$): 983,000

Maximum Hourly Emission Rate (lbs/hr): 88.3

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 15,500

MAGLC ($\mu\text{g}/\text{m}^3$): 23,400
 - b. Pollutant: hexane

TLV ($\mu\text{g}/\text{m}^3$): 176,000

Maximum Hourly Emission Rate (lbs/hr): 27.2

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,780

MAGLC ($\mu\text{g}/\text{m}^3$): 4,190

c. Pollutant: methanol

TLV ($\mu\text{g}/\text{m}^3$): 262,000

Maximum Hourly Emission Rate (lbs/hr): 15.7

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 2,750

MAGLC ($\mu\text{g}/\text{m}^3$): 6,240

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d. Pollutant: naphtha

TLV ($\mu\text{g}/\text{m}^3$): 1,420,000

Maximum Hourly Emission Rate (lbs/hr): 28.5

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,990

MAGLC ($\mu\text{g}/\text{m}^3$): 33,800

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- e. changes in the composition of the materials used (typically for coatings or cleanup materials), 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 previously modeled;
- f. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- g. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

D. Reporting Requirements

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1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the liquid organic materials and photochemically reactive cleanup materials exceeded the hourly emission limitation, and the actual average hourly organic compound emissions for each such day.
 - b. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined organic compound emissions from all emissions units exceeded the rolling 12-month limitation, and the actual organic compound emissions for each such rolling 12-month period.
 - c. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined formaldehyde emissions from all emissions units exceeded 175 pounds per calendar year, and the year-to-date actual formaldehyde emissions for each such month.
 - d. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of any individual HAP exceeded 10 tons per 12-month rolling period, and the 12-month summation of any such HAP emissions for each such month.
 - e. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the combined facility-wide emissions of all HAPs exceeded 25 tons per 12-month rolling period, and the 12-month summation of HAP emissions for each such month.
2. The permittee shall submit deviation (excursion) reports in accordance with paragraph 3.b of the General Terms and Conditions of this permit.

E. Testing Requirements

Compliance with the emission limitations in section II.A.1. of these terms and conditions shall be determined in accordance with the following methods:

1. Emission limitation:

10 pounds per hour of OC.

Applicable compliance method:

Borden Chemical Inc
PTI Application: 04-01276
Issued

Facility ID: 0448011215

Emissions Unit ID: **P019**

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials. If required, the permittee shall demonstrate compliance through stack testing performed in accordance with the methods and procedures of Method 25 of 40 CFR Part 60, Appendix A.

Borde**PTI A**Emissions Unit ID: **P019****Issued: To be entered upon final issuance**

2. Emission limitation:

46 tons per year OC facility-wide.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

3. Emission limitation:

the combined facility-wide emissions of formaldehyde shall not exceed 175 pounds per year, and the combined facility-wide emissions of hazardous air pollutants (HAPs) shall not exceed 10 tons individual, or 25 tons total, in any 12-month rolling period.

Applicable compliance method:

compliance may be demonstrated through monitoring and record keeping requirements of Section II.C.3. Formulation data may be used to determine the chemical contents of the materials.

F. Miscellaneous Requirements

None

NEW SC

PTI Num

FACILITY

Emissions Unit ID: **P019**

FACILITY DESCRIPTION Modify Permit to Install 04-1092 issued 10/12/2000 to add the ability to use photochemically reactive compounds for two sources, P011 and P013.

CITY/TWP Toledo

SIC CODE 2899 SCC CODE 3-04-003-99 EMISSIONS UNIT ID P002

EMISSIONS UNIT DESCRIPTION solvent paste machine No.8 (200 gallons), also water paste at times, Baker Perkins mixer (10,000 lbs/hr) with fabric filtration. modification

DATE INSTALLED 1978

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	not applicable	0.03 lb/hr	negligible	0.03 lb/hr	0.13
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	attainment	39 lb/hr	0.02	39 lb/hr	46 plantwide
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics	formaldehyde				175 lb

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
limitations on annual emissions, no control

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? x YES _____ NO _____

IDENTIFY THE AIR CONTAMINANTS: isopropanol, hexane, methanol and naphtha

NEW SOURCE REVIEW FORM B

PTI Number: 04-01276

Facility ID: 0448011215

FACILITY NAME Borden Chemical Inc

FACILITY DESCRIPTION Modifv Permit to Install 04-1092 issued CITY/TWP Toledo

Emissions Unit ID: **P019**SIC CODE 2899 SCC CODE 3-04-003-99 EMISSIONS UNIT ID P005

EMISSIONS UNIT DESCRIPTION solvent based paired Cowles mixers No.10 (350 gallons), only one can operate at a time (24,000 lbs/hr) with fabric filtration. modification

DATE INSTALLED 1980

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	not applicable	0.02	0.02	0.06 lb/hr	0.28
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	attainment	4.7	3.0	66 lb/hr	46 plant-wide
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics	formaldehyde				175 lb/hr

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

limitations on annual emissions, no control

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

x

YES

 NO

IDENTIFY THE AIR CONTAMINANTS:

isopropanol, hexane, methanol and naphtha

NEW SOURCE REVIEW FORM B

PTI Number: 04-01276 Facility ID: 0448011215

FACILITY NAME Borden Chemical Inc

FACILITY DESCRIPTION Modifv Permit to Install 04-1092 issued CITY/TWP Toledo

Emissions Unit ID: P019

SIC CODE 2899 SCC CODE 3-04-003-99 EMISSIONS UNIT ID P013

EMISSIONS UNIT DESCRIPTION paste machine (two 700 gallons), Small Shar mixer (15,000 lbs/hr) with fabric filtration, modification.

DATE INSTALLED 1987

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	not applicable	0.02	negligible	0.06 lb/hr	0.28
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	attainment	22 lb/hr	3.0	66	46 plant-wide
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics	formaldehyde				175 lb/hr

APPLICABLE FEDERAL RULES:

NPSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

limitations on annual emissions, no control

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? x YES NO

IDENTIFY THE AIR CONTAMINANTS: isopropanol, hexane, methanol and naphtha

NEW SOURCE REVIEW FORM B

PTI Number: 04-01276 Facility ID: 0448011215

FACILITY NAME Borden Chemical Inc

FACILITY DESCRIPTION Modifv Permit to Install 04-1092 issued CITY/TWP Toledo

Emissions Unit ID: **P019**

SIC CODE 2899 SCC CODE 3-04-003-99 EMISSIONS UNIT ID P019

EMISSIONS UNIT DESCRIPTION let down station No.9 (1,000 gallons), paste mixer (8,000 lbs/hr) with no control. modification

DATE INSTALLED 1997

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	not applicable				
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	attainment	3 lb/hr	1.0	10 lb/hr	46 plant-wide
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics	formaldehyde				175 lb/hr

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

limitations on annual emissions, no control

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? x YES NO

IDENTIFY THE AIR CONTAMINANTS: isopropanol, hexane, methanol and naphtha