

Page 2 of 19

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

**GENERAL PERMIT CONDITIONS**

**TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

**CONSTRUCTION OF NEW SOURCES**

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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

Page 3 of 19

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

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 applicable standards.

**PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

**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.

Page 4 of 19

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

**APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

**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.

**PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

**SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

Facility Name: **Guardian Manufacturing Company, Inc**Application Number: **03-1424**Date: **August 18, 1999****AIR EMISSION SUMMARY**

The air contaminant emissions units listed below comprise the Permit to Install for **Guardian Manufacturing Company, Inc** located in **Huron** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification Description	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
P001 (Mod)	Large dip ring #1 for butyl rubber gloves - modification to allow for an increase in production	Compliance with Ohio EPA's Air Toxics Policy, use of a carbon adsorption solvent recovery system with a 96 percent control efficiency and compliance with the terms and conditions of this permit	3745-31-05	9.2 pounds OC/hour, 40.3 tons OC/year combined from emissions units P001, P002, and P004 (refer to Additional Special Terms and Conditions)
			3745-21-07 (G)(2)	Reduce OC emissions by at least 85 percent (refer to Additional Special Terms and Conditions)
P002 (Mod)	Small dip ring #3 for butyl rubber gloves - modification to allow for an increase in production	Compliance with Ohio EPA's Air Toxics Policy, use of a carbon adsorption solvent recovery system with a 96 percent control efficiency and compliance with the terms and conditions of this permit	3745-31-05	9.2 pounds OC/hour, 40.3 tons OC/year combined from emissions units P001, P002, and P004 (refer to Additional Special Terms and Conditions)

Facility Name: **Guardian Manufacturing Company, Inc**Application Number: **03-1424**Date: **August 18, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P002 (Mod) Cont'd			3745-21-07 (G)(2)	Reduce OC emissions by at least 85 percent (refer to Additional Special Terms and Conditions)
P004 (Mod)	Large dip ring #2 for butyl rubber gloves - modification to allow for an increase in production	Compliance with Ohio EPA's Air Toxics Policy, use of a carbon adsorption solvent recovery system with a 96 percent control efficiency and compliance with the terms and conditions of this permit	3745-31-05	9.2 pounds OC/hour, 40.3 tons OC/year combined from emissions units P001, P002, and P004 (refer to Additional Special Terms and Conditions)
			3745-21-07 (G)(2)	Reduce OC emissions by at least 85 percent (refer to Additional Special Terms and Conditions)
P005 (Mod)	Form release dip tank - modification to allow for an increase in production	Use of materials which are not photochemically reactive, and compliance with the terms and conditions of this permit	3745-31-05	114.5 pounds OC/hour, 40.0 tons OC/year (refer to Additional Special Terms and Conditions)
			3745-21-07 (G)	No applicable emission limitations as long as only non-photochemically reactive

Facility Name: **Guardian Manufacturing Company, Inc**  
 Application Number: **03-1424**  
 Date: **August 18, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P005 (Mod) Cont'd				materials are employed.
P006 (Mod)	Dry oven - modification to allow for an increase in production	Compliance with Ohio EPA's Air Toxics Policy and with the terms and conditions of this permit.	3745-31-05	11.1 pounds OC/hour, 40.0 tons OC/year
P007 (Mod)	Cure oven #1 - modification to allow for an increase in production	Compliance with Ohio EPA's Air Toxics Policy and with the terms and conditions of this permit.	3745-31-05  3745-21-07 (G)(1)	2.74 tons OC/year  3.0 pounds OC/hour not to exceed 15.0 pounds OC/day

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
OC	123.0*

\* The increase in allowable OC emissions as a result of this PTI modification is 90.5 tons/year.

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

**WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

and disposal of any waste material generated by the operation of the sources.

#### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

#### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

#### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

#### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

Introduction: The company has submitted PTI application No. 03-1424 for the modification of large dip ring #1 (P001), small dip ring #3 (P002), large dip ring #2 (P004), the form release dip tank (P005), the dry oven (P006) and the cure oven (P007). This PTI shall supersede the emission limitations and Additional Special Terms and Conditions established in PTI No. 03-8740. As a result of the modifications to these emissions units, the facility will become a major stationary source in terms of Title V applicability and therefore, the facility will be subject to the permitting requirements of Title V of the Clean Air Act, as amended.

##### **A. Applicable Emission Limitations and/or Control Requirements**

1. Emissions of OC from emissions units P001, P002 and P004 shall be controlled by a carbon adsorption solvent recovery system which has a 100 percent capture

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

efficiency and a minimum removal efficiency of 96 percent.

2. The permittee shall employ a permanent total enclosure around emissions units P001, P002 and P004.
3. The emissions of OC from emissions unit P005 shall not exceed 40.0 tons per year, based upon a rolling, 12-month summation of the monthly OC input rates.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the OC input levels specified in the following table:

<u>Month</u>	<u>Maximum Allowable Cumulative OC Input Rate</u>
1	3.33 tons
1-2	6.66 tons
1-3	9.99 tons
1-4	13.32 tons
1-5	16.65 tons
1-6	19.98 tons
1-7	23.31 tons
1-8	26.64 tons
1-9	29.97 tons
1-10	33.30 tons
1-11	36.63 tons
1-12	40.0 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual OC input limitation shall be based upon a rolling, 12-month summation of the monthly OC input rates.

\* Monthly OC input rate =  $\Sigma (C \times D)$  where C= the number of gallons of material employed per day and D= the OC content of each material employed in pounds of OC per gallon of materials. Monthly OC input rates are equivalent to daily OC emission rates and are based upon 100 percent of the solvent in the materials being emitted.

4. The emissions of OC from emissions unit P006 shall not exceed 40.0 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

**B. Operational Restrictions**

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitations specified in this permit were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions units' exhaust systems, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for each pollutant for each emissions unit P001, P002, P004, P006 and P007:

Pollutant: xylene  
TLV (ug/m3): 434,000  
Maximum hourly emission rate (lbs/hr): 16.31  
Predicted 1-hour maximum ground-level concentration at the fenceline (ug/m3): 1,425.0  
Maximum acceptable ground-level concentration (MAGLC)(ug/m3): 10,333.3

Pollutant: toluene  
TLV (ug/m3): 377,000  
Maximum hourly emission rate (lbs/hr): 6.52  
Predicted 1-hour maximum ground-level concentration at the fenceline (ug/m3): 569.9  
Maximum acceptable ground-level concentration (MAGLC)(ug/m3): 8,976.2

The following summarizes the results of the modeling for each pollutant for emissions unit P005:

Pollutant: ethanol  
TLV (ug/m3): 1,880,000  
Maximum hourly emission rate (lbs/hr) {increase only}: 102.0  
Predicted 1-hour maximum ground-level concentration at the fenceline (ug/m3): 11,210  
Maximum acceptable ground-level concentration (MAGLC)(ug/m3): 44,762

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to any of the afore-mentioned processes may be determined to be a "modification":

- a. 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 specified in the above table;
  - b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
  - c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
  - d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.
2. Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:
- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
  - b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
  - c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change

and the results of the application of the Air Toxic Policy for the change.

3. For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall maintain at least 200 fpm negative airflow into the permanent total enclosures for units P001, P002 and P004 through all NDO's (or a pressure drop of 0.007 inch of water) whenever the emissions unit is in operation.
5. The permittee shall limit the quantity of gloves that may be cured each day in emissions unit P007 to less than or equal to 606 pounds of dry gloves.

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

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature of the carbon bed after regeneration (including any cooling cycle(s)). Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when any of the associated emissions units were in operation; and,
- b. all carbon bed regeneration cycles during which the temperature of the carbon bed after regeneration was either more than 10 percent above the maximum temperature for any regeneration cycle during the most recent performance test that demonstrated that the emissions units were in compliance or greater than the specified temperature that is equivalent

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

to 10 percent above the maximum temperature for any regeneration cycle.

2. The permittee shall collect and record the following information for each month for emissions unit P005:
  - a. the quantity of gloves produced at the facility;
  - b. the number of gloves/tray;
  - c. the number of trays coated/month [a/b]; and,
  - d. alcohol usage (pounds/month) [c x 9.54 pounds alcohol/tray].

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC input rate for each calendar month.

3. The permittee shall collect and record the following information for each month for emissions unit P006:
  - a. the number of batches dried/month;
  - b. the number of gloves/batch;
  - c. the dry time/batch;
  - d. the calculated OC emissions rate/batch; and,
  - e. the calculated OC emissions rate/month.
4. The permittee shall collect and record the following information for each day for emissions unit P007:
  - a. the type of glove cured (i.e., 7 mil butyl, 14 mil butyl, 25 mil butyl, 35 mil butyl or 35 mil neoprene);
  - b. the number of trays of gloves cured/batch;
  - c. the number of pairs of gloves/tray;
  - d. the dry weight of each pair of gloves (pounds);
  - e. the total dry weight of gloves cured/batch [bxcxd];

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

- f. the OC emissions/batch ("x") from the cure oven  
[ $e/525=x/13$ ];\*
- g. the number of hours/batch cured; and,
- h. the average hourly OC emissions/batch [f/g].

\* The permittee has provided test data which shows that the OC emissions from the cure oven when drying 525 pounds of 25 mil butyl gloves is 13 pounds/batch. The permittee has indicated that the OC emissions are directly proportional to the dry glove weight.

- 5. The permittee shall install, maintain and operate monitoring devices and recorders which simultaneously measure and record the pressure inside and outside the permanent total enclosures for emissions units P001, P002 and P004. The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record and maintain the following information on a daily basis:

- a. the difference in pressure between the permanent total enclosure and the surrounding area(s); and,
- b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

- 6. The permittee shall collect and record the following information for emissions units P001, P002, P004, P005, P006 and P007 for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:

- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
- b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

- 7. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports for emissions units P001, P002 and P004 which identify all carbon bed regeneration cycles during which the temperature of the carbon bed after regeneration was either more than 10 percent above the maximum temperature for any regeneration cycle during the most recent performance test that demonstrated the emissions units were in compliance or greater than the specified temperature that is equivalent to 10 percent above the maximum temperature for any regeneration cycle.
2. The permittee shall submit quarterly summaries for emissions units P001, P002 and P004 which include a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions units were in operation.
3. The permittee shall submit pressure differential deviation (excursion) reports for emissions units P001, P002 and P004 that identify all periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month OC input rate limitation for emissions unit P005 and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative OC input levels.
5. The compliance status of the emissions units shall be reported pursuant to the annual certification required by OAC rule 3745-77-07(C)(5).
6. The actual annual emissions data for the emissions units shall be reported pursuant to the fee emissions report required by OAC rule 3745-78-02(A).
7. The permittee shall submit the quarterly reports of the information detailed in sections D.1, D.2, D.3, D.4 and

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

D.5 of the terms and conditions of this permit to the Ohio EPA, Northwest District Office.

Quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Northwest District Office. If no deviations occurred during a calendar quarter, a quarterly report shall be submitted which states that no deviations occurred during that quarter. The reports shall be submitted 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).

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for the carbon adsorption solvent recovery system which controls the emissions from units P001, P002 and P004 in accordance with the following requirements:
  - a. the emissions testing shall be conducted within 6 months of the issuance of this PTI, or as soon as production in these emissions units is sufficient to conduct a valid stack test ((Production shall be sufficient when Guardian Manufacturing Company operates at least two of the three emissions units at 50% of capacity for more than four (4) consecutive hours));
  - b. the emissions testing shall be conducted to demonstrate compliance with the capture and control efficiency limitations;
  - c. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for OC: The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency,"

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

dated January 9, 1995. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases; and,

- d. the test(s) shall be conducted while the emissions units are operating at or near the maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA district office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northwest District Office within 30 days following completion of the test(s).

3. Compliance Methods Requirements: Compliance with the emission limitation(s) established in the Air Emission Summary and in section A of the terms and conditions of this permit shall be determined in accordance with the following method(s):

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

a. Emission Limitation:

P001, P002 and P004 combined - 9.2 pounds OC/hour,  
40.3 tons OC/year

Applicable Compliance Method:

The hourly and annual OC emission limitations are based on the potential to emit of each emissions unit-- a maximum OC input rate of 2474 pounds/batch divided by 10.8 hours/batch then multiplied by a minimum control efficiency of 96 percent. The permittee shall demonstrate compliance with this emission limitation by conducting the performance testing as outlined in sections E.1 and E.2 of the terms and conditions of this permit.

b. Emission Limitation:

P005 - 114.5 pounds OC/hour

Applicable Compliance Method:

The hourly OC emission limitation is based on the emissions unit's potential to emit-- a maximum OC usage rate of 114.5 pounds/hour. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this emission limitation.

c. Emission Limitation:

P005 - 40.0 tons OC/rolling 12-month period

Applicable Compliance Method:

Compliance shall be determined in accordance with the recordkeeping required in section C.2 of the Additional Special Terms and Conditions of this permit.

d. Emission Limitation:

P006 - 11.1 pounds OC/hour

Applicable Compliance Method:

The hourly OC emission limitation is based on the emissions unit's potential to emit-- the maximum OC

Facility Name: **Guardian Manufacturing Company, Inc**

Application Number: **03-1424**

Date: **August 18, 1999**

input rate to the oven (53 pounds/hour) minus the OC remaining in the gloves after the oven (13 pounds/hour). This value is multiplied by the maximum number of loads/hour (0.278). Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this emission limitation.

e. Emission Limitation:

P006 - 40.0 tons OC/rolling 12-month period

Applicable Compliance Method:

Compliance shall be determined in accordance with the recordkeeping required in section C.3 of the Additional Special Terms and Conditions of this permit.

f. Emission Limitation:

P007 - 3.0 pounds OC/hour, not to exceed 15.0 pounds/day, 2.47 tons/year

Applicable Compliance Method:

Compliance shall be determined in accordance with the recordkeeping required in section C.3 of the Additional Special Terms and Conditions of this permit.

**F. Miscellaneous Requirements**

1. The above terms and conditions shall supersede all of the air pollution control requirements contained in the Permit to Install application No. 03-8740 issued for these emissions units on December 28, 1995.