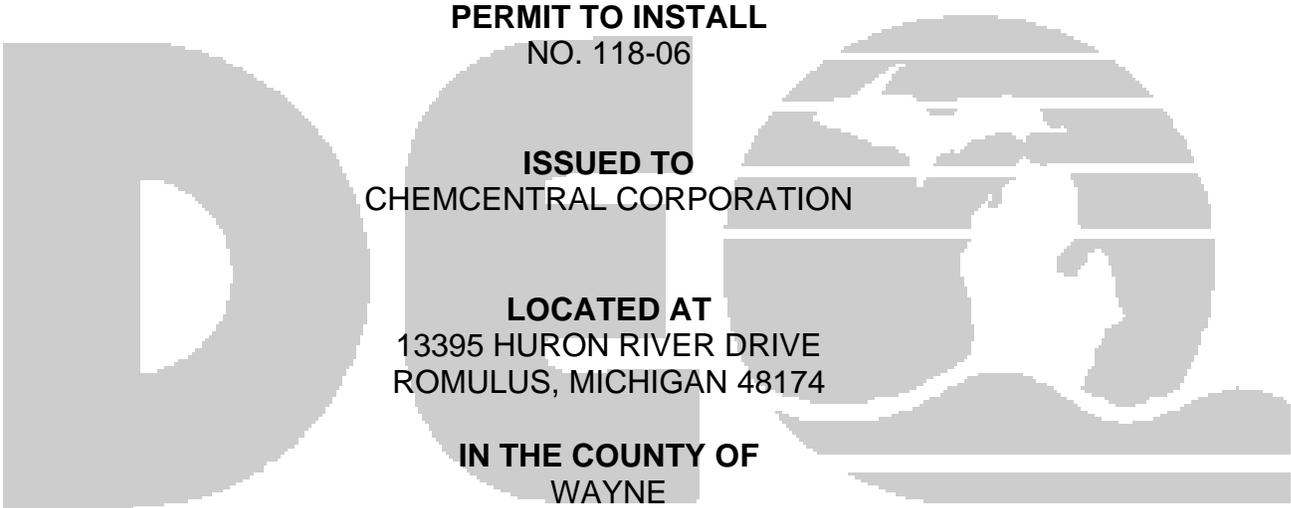


**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

JULY 10, 2006



STATE REGISTRATION NUMBER
H6092

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 6/12/2006	
DATE PERMIT TO INSTALL APPROVED: 7/10/2006	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms		Pollutant/Measurement Abbreviations	
AQD	Air Quality Division	Btu	British Thermal Unit
ANSI	American National Standards Institute	°C	Degrees Celsius
BACT	Best Available Control Technology	CO	Carbon Monoxide
CAA	Clean Air Act	dscf	Dry standard cubic foot
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality	PM	Particulate Matter
MIOSHA	Michigan Occupational Safety & Health Administration	PM-10	Particulate Matter less than 10 microns diameter
MSDS	Material Safety Data Sheet	pph	Pound per hour
NESHAP	National Emission Standard for Hazardous Air Pollutants	ppm	Parts per million
NSPS	New Source Performance Standards	ppmv	Parts per million by volume
NSR	New Source Review	ppmw	Parts per million by weight
PS	Performance Specification	psia	Pounds per square inch absolute
PSD	Prevention of Significant Deterioration	psig	Pounds per square inch gauge
PTE	Permanent Total Enclosure	scf	Standard cubic feet
PTI	Permit to Install	sec	Seconds
RACT	Reasonably Available Control Technology	SO ₂	Sulfur Dioxide
ROP	Renewable Operating Permit	THC	Total Hydrocarbons
SC	Special Condition Number	tpy	Tons per year
SCR	Selective Catalytic Reduction	µg	Microgram
SRN	State Registration Number	VOC	Volatile Organic Compounds
TAC	Toxic Air Contaminant	yr	Year
TEQ	Toxicity Equivalence Quotient		
VE	Visible Emissions		

* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **[R336.1201(1)]**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent, shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **[R336.1201(4)]**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **[R336.1201(6)(b)]**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **[R336.1201(8), Section 5510 of Act 451, PA 1994]**
5. The AQD District Supervisor shall be notified, in writing, of a change in ownership or operational control of the stationary source or emission unit(s) authorized by this Permit to Install pursuant to R336.1219. The notification shall include all of the information required by R336.1219(1)(a) and (b). In addition, a new owner or operator must submit a written statement pursuant to R336.1219(1)(c), agreeing to and accepting the terms and conditions of this Permit to Install, and shall notify the AQD District Supervisor of any change in the contact person for this Permit to Install. **[R336.1219]**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **[R336.1901]**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided no later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **[R336.1912]**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.

9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law nor does it affect any liability for past violations under the Natural Resources and Environmental Protection Act, 1994 PA 451.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.
11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R336.1303. **[R336.1301]**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R336.1370(2). **[R336.1370]**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R336.2001 and R336.2003, under any of the conditions listed in R336.2001. **[R336.2001]**

SPECIAL CONDITIONS

Emission Unit Identification

Emission Unit ID	Emission Unit Description	Stack Identification
EU-CONT-FILL	Container filling operation – chemicals stored at the facility are loaded into 5 gallon cans, 55 gallon drums, portable tanks, and bulk transports for shipment offsite. Stack parameters do not apply to bulk transports.	SV-CONT-FILL
EUTANKFARM	Fourteen 30,000 gallon horizontal above ground storage tanks divided into 58 separate compartments and equipped with submerged fill pipes and 6 ounce pressure/vacuum breaker vents.	N/A
EUBLENDTANK1	blend tank 1	SVBLENDTANK1
EUBLENDTANK2	blend tank 2	SVBLENDTANK1
EUBLENDTANK3	blend tank 3	SVBLENDTANK1
Changes to the equipment described in this table are subject to the requirements of R336.1201, except as allowed by R336.1278 to R336.1290.		

Flexible Group Identification

Flexible Group ID	Emission Units Included in Flexible Group	Stack Identification
FGBLENDTANKS	EUBLENDTANK1, EUBLENDTANK2, EUBLENDTANK3	N/A
FGFACILITY	All process equipment at the facility including equipment covered by other permits, grand-fathered equipment and exempt equipment.	N/A

The following conditions apply to: EU-CONT-FILL

Description: Container filling operation – chemicals stored at the facility are loaded in to five gallon cans, 55 gallon drums, portable tanks, and bulk transports for shipment offsite. Stack parameters do not apply to bulk transports.

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirement
1.1a	VOC	EU-CONT-FILL	10.5 tons	12-month rolling time period as determined at the end of each calendar month	SC 1.4, 1.5, 1.6	R336.1205(3), R336.1702(a)
1.1b	Each HAP	EU-CONT-FILL	8 tons	12-month rolling time period as determined at the end of each calendar month	SC 1.4, 1.5, 1.6	R336.1205(3), R336.1702(a)
1.1c	Total HAP	EU-CONT-FILL	10.5 tons	12-month rolling time period as determined at the end of each calendar month	SC 1.4, 1.5, 1.6	R336.1205(3), R336.1702(a)

Material Usage Limits

1.2 The throughput of each individual toxic air contaminant shall not exceed the limit calculated using the method in Appendix A. Regardless of the limit determined using Appendix A, in no case shall the throughput of any individual toxic air contaminant exceed 15,000,000 gallons per 12-month rolling time period as determined at the end of each calendar month. **[R335.1205(3), R336.1225, R336.1702(a)]**

Recordkeeping/Reporting/Notification

1.3 The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **[R336.1205(3), R336.1225, R336.1702(a)]**

1.4 The permittee shall keep, in a satisfactory manner, records of the allowed throughput for each toxic air contaminant, as determined according to Appendix A, including all data used to calculate the allowed throughputs. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **[R336.1205(3), R336.1225, R336.1702(a)]**

1.5 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the throughput of total VOC, each individual HAP, total HAPs, and each specific toxic air contaminant for EU-CONT-FILL. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **[R336.1205(3), R336.1225, R336.1702(a)]**

1.6 The permittee shall calculate the total VOC, individual HAP, and total HAP emission rates from EU-CONT-FILL for each calendar month and 12-month rolling time period, using a method acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **[R336.1205(3), R336.1225, R336.1702(a)]**

Stack/Vent Restrictions

Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement
1.7a SV-CONT-FILL*	4	28	R336.1225
The exhaust gases shall be discharged unobstructed to the ambient air. * These requirements do not apply to bulk transports.			

The following conditions apply to: EUTANKFARM

Description: Fourteen 30,000 gallon horizontal above ground storage tanks divided into 58 separate compartments and equipped with submerged fill pipes and 6 ounce pressure/vacuum breaker vents.

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirement
2.1a	VOC	EUTANKFARM	3.45 tons	12-month rolling time period as determined at the end of each calendar month	SC 2.7	R336.1225, R336.1702(a)

Material Usage Limits

2.2 The product transfer rate into EUTANKFARM shall not exceed 211 gallons per minute. **[R336.1225]**

Process/Operational Limits

2.3 The permittee shall meet all applicable provisions of the Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart Kb for Volatile Organic Liquid Storage Vessels. **[40 CFR Part 60 Subpart Kb]**

Equipment

2.4 The permittee shall not operate any compartment of any EUTANKFARM storage tank unless the pressure/vacuum vent for that compartment is installed, maintained, and operated in a satisfactory manner. **[R336.1225, R336.1702(a)]**

Recordkeeping/Reporting/Notification

2.5 The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **[R336.1225, R336.1702(a)]**

2.6 The permittee shall keep, in a satisfactory manner, monthly records of the EUTANKFARM throughput. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **[R336.1225, R336.1702(a)]**

2.7 The permittee shall calculate the VOC emission rate from EUTANKFARM for each calendar month and 12-month rolling time period, using a method acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **[R336.1225, R336.1702(a)]**

The following conditions apply to: FGBLENDTANKS

Material Usage Limits

3.1 The permittee shall not use hexsolv in FGBLENDTANKS without prior notification to and approval by the AQD. [R336.1225]

Process/Operational Limits

3.2 The permittee shall not operate FGBLENDTANKS unless all products are produced by following a written set of instructions. All instructions requiring the use of dibasic ester shall prohibit the addition of dibasic ester into an empty blend tank as the first component. All instructions shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1225]

3.3 The permittee shall not produce more than the following amount of product per year. [R336.1225, R336.1702]

PRODUCT	GALLONS PER YEAR
DT 885	25095
H-100	14300
Parcosol 131R	344232
Parcosol EC-6	46805
Parcosol T46537	1603
Polypurge 6773	89925
Polypurge OH	124235
T-9273	39600

Recordkeeping/Reporting/Notification

3.4 The permittee shall keep, in a satisfactory manner, records of the amount of product produced in FGBLENDTANKS. These records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1225, R336.1702]

The following conditions apply to: FGFACILITY

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirements
4.1a	VOC	FGFACILITY	20 tpy	12-month rolling time period as determined at the end of each calendar month.	SC 4.3	R336.1205(3)
4.1b	Each HAP	FGFACILITY	Less than 9 tpy	12-month rolling time period as determined at the end of each calendar month.	SC 4.3	R336.1205(3)
4.1c	Total HAPs	FGFACILITY	Less than 22 tpy	12-month rolling time period as determined at the end of each calendar month.	SC 4.3	R336.1205(3)

Recordkeeping/Reporting/Notification

- 4.2 All required calculations shall be completed in a format acceptable to the AQD District Supervisor and made available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **[R336.1205(3)]**
- 4.3 The permittee shall keep, in a satisfactory manner, records of monthly and 12-month rolling time period VOC, individual HAP, and total HAP emission rate calculations for FGFACILITY, as required by SC 4.1a, SC 4.1b and SC 4.1c. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **[R336.1205(3)]**

Appendix A: Toxic Air Contaminant Throughput Limits

Method to calculate the allowable annual throughput of an individual toxic air contaminant.

The allowable throughput is not to exceed 15,000,000 gallons per year* regardless of the calculated allowable throughput.

Data needed:

MW = Molecular weight

P = Vapor pressure (psia) at 20°C

SL = AQD screening level for the compound (from the AQD website, <http://www.deq.state.mi.us/itslirsl/>)

1. For a compound with an annual average screening level:

$$\text{Throughput (gallons per year}^*) = 41,604,136 \times \frac{\text{SL}}{\text{P} \times \text{MW}}$$

2. For a compound with a 24 hour average screening level:

$$\text{Throughput (gallons per year}^*) = 3,796,468 \times \frac{\text{SL}}{\text{P} \times \text{MW}}$$

3. For a compound with an 8 hour average screening level:

$$\text{Throughput (gallons per year}^*) = 1,898,234 \times \frac{\text{SL}}{\text{P} \times \text{MW}}$$

4. For a compound with a 1 hour average screening level:

$$\text{Throughput (gallons per year}^*) = 759,293 \times \frac{\text{SL}}{\text{P} \times \text{MW}}$$

* Gallons per year is based upon a 12-month rolling time period as determined at the end of each calendar month.