

We make Indiana a cleaner, healthier place to live

Evan Bayh Governor Kathy Prosser Commissioner 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

April 26, 1996

Mr. Robert Elliott Arvin North American Automotive 1001 Hurricane Street Franklin, Indiana 46131

> Re: Operation Permit Validation Construction Permit No. CP 081-4910 ID No. 081-00020

Dear Mr. Elliott:

The Office of Air Management (OAM) has received your Affidavit of Construction for the Cadillac Paint line with one (1) spray paint booth, one (1) natural gas-fired dry off oven and three (3) natural gas-fired parts washer combustion units located at 1001 Hurricane Street, Franklin, Indiana.

You are hereby authorized to operate the equipment as listed in Construction Permit No. CP 081-4910, ID No. 081-00020, pursuant to the operation permit conditions therein. This operation permit shall expire on April 25, 2001.

You will be billed for the applicable operating fee at a later date.

This authorization to operate does not terminate, dissolve or otherwise affect any appeal that may have been filed, or any stay of effectiveness that may have been issued with respect to the Construction Permit.

Sincerely,

Barry Titus, Chief

Permit Administration Section Office of Air Management

BJT/kam

cc: File - Johnson County

D.J. Knotts
Janet Mobley
Donna Dickison
Michele Taylor
Kellie Metts

Cert P 203 644 655

Page 1 of 2

Mail to:

Permit Administration & Development Section

Office Of Air Management 100 North Senate Avenue

P. O. Box 6015

Indianapolis, Indiana 46206-6015

Arvin North American Automotive 1001 Hurricane Street Franklin, Indiana 46131

Affidavit of Construction

I,	ROBERT ELLIOTT being duly sworn upon my oath, depose and say:
1.	I live in BARTHOLOMEW County, Indiana and being of sound mind and over the twenty -one (21) years of age, I am competent to give this affidavit.
2.	I hold the position of FACILITY MGR. for ARVIN N. AMER. AUTO.
3.	By virtue of my position with <u>ARVIN N.A.A.</u> I have personal knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of <u>ARVIN N.A.A FRANKLIN</u>
4.	I hereby certify that Arvin North American Automotive,1001 Hurricane Street, Franklin, Indiana 46131, has constructed Cadillac Paint line with the spray paint booth, three (3) stage parts washer combustion units and the dry - off oven with the requirements and intent of the construction permit application received by the Office of Air Management on September 29,1995 as permitted pursuant to Construction Permit No. CP- 081 - 4910, Plant ID No. 081 - 00020 issued on 4/3/96

Further Affiant said not.

RECEIVED

APR 1 6 1996

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT

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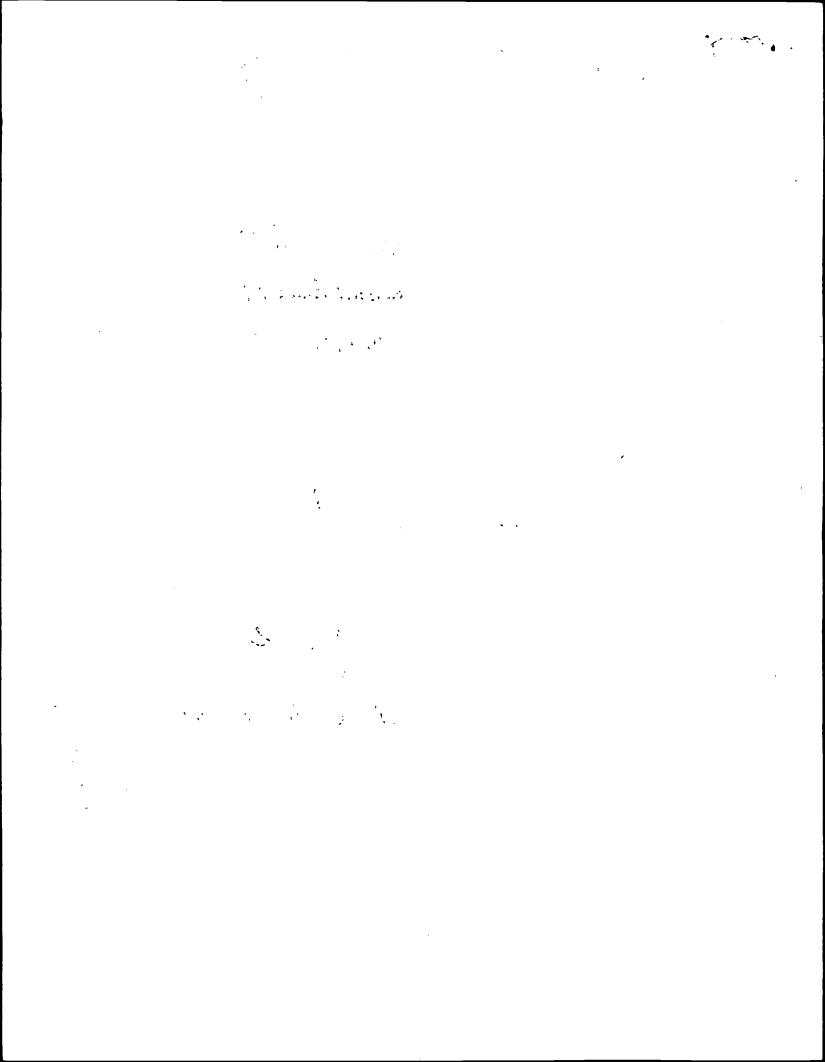
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I affirm under penalties of perjury that the repres my information and belief.	entations contained in this affidavit are true, to the best of
	Robert Elliott
	Signature
	ROBERT ELLIOTT
	Name (typed or printed)
	4/4/96
	Date
STATE OF INDIANA))SS	
COUNTY OF JOHNSON	
Subscribed and sworn to me, a notary pand State of Indiana on this	oublic in and for County day of g &, 19 9 &
My Commission expires:	
	Markedolay Signature
	MARK J. ADOLAY
	Name (typed or printed)





We make Indiana a cleaner, healthier place to live

Evan Bayh Governor Kathy Prosser Commissioner

April 22,1994

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

Certified MailP 255 205 839

OFFICE OF AIR MANAGEMENT

Advantage Engineering, Inc. P.O. Box 407 Greenwood, IN 46142

Attention: Mr. Harry Short

Re:Registered Construction and Operation Status, CP# 081-3420 and Company I.D.# 081-00029

Ladies and Gentlemen:

The Advantage Engineering, Inc. application has been reviewed. Based on the data submitted and the provisions in Sections 1 and 2 of 326 IAC 2-1, it has been determined that the following, to be located at Greenwood, Indiana is classified as registered: Advantage Engineering produces a maximum of 406 pounds per hour of finished refrigerated machinery and related products.

A.) Four (4) spray booths each one using an air atomizing spray with a dry filter to control particulate matter. Each stack for booths 001, 002, 003 and 004 has a height of 12.5 feet and a diameter of 2.67 inches.

Pursuant to rule IAC 8-2-9 (d) no owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of forty-two hundredths (0.42) kilograms per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety degrees Celsius (90 degrees C) (one hundred ninety-four degrees Fahrenheit (194 degrees F).

Advantage Engineering, Inc. Greenwood, Indiana

CP # 081-3420 ID # 081-00029

Any change or modification which may increase the potential emissions to 25 tons per year or more of volatile organic compounds from the equipment covered in this letter must be approved by the Office of Air Management before such change may occur.

Sincerely

Permits Branch Office of Air Management

cc: Johnson County Health Department Air Compliance Section Compliance Branch - Tracking Data Support Section

State Potential VOC and Particulate Emissions From Surface Coating Operations Advantage Engineering, inc. Greenwood, Indiana QA/09394 Penny Flickinger

16 Transfer Efficiency	10% 10%	
15 tb VOC /gal solids	7.64	
14 Particulate Potential ton/yr	10.98	13.9
13 Potential VOC tons per year	4.11	4.9
12 Potential VOC pounds per day	22.51	26.6
Potential VOC pounds Per Pour	0.94	2
10 Pounds VOC per gallon of coating	2.37	
Pounds VOC per gailon of coating less water	2.37	
8 Maximum (unithour)	0.20	
7 Gal of Mat (ga//unit)	1.98000	
6 Volume % Non-Vol (solids)	31.0% 29.0%	
5 Volume % Water	0.0% 0.0%	solvents
4 Weight % Organics	25.2% 18.9%	coating to all
3 Weight % Water	0.0% 0.0%	Add worst case coating to
2 Weight % Votatile (H20& Organics)	25.2% 18.9%	∢
1 Density (Lb/Gal)	9.4	
Material	Paint Primer	State Potential Emissions

METHODOLOGY

1.) Pounds of VOC per Gallon Coating less Water = (Density (tb/gal) * Weight % Organics) divided by 1-Volume % water
2.) Pounds of VOC per Gallon Coating = (Density (tb/gal) * Weight % Organics)
3.) Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (tb/gal)
9. pl of Material (gallount) * Maxfrurun (unithn)
4.) Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (tb/gal)
6. all of Material (gallount) * Maxfrurun (unithn)* (4.4 fresh day)
8.) Potential VOC Pounds per Year = Lounds of VOC per Gallon coating (tb/gal)
9. Gal of Material (gallount) * Maxfrurun (unithn)* (4.7 for per Gallon coating (tb/gal)
9. Particulate Potential Tons per Year = (units/houn)* (gallount)* (tallount)* (tallount)*

Registration: 36.6 lbs/day > 15 lbs/day but less than 25 tons/year and 76.16 lbs/day of particulate matter but < 25 tons/yr

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Evan Bayh Governor Kathy Prosser Commissioner

April 12,1994

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

PERMIT NO.081-3420

RE: BILL FOR ____

Paint Booths

CERTIFIED MAIL P 352 042 375

Advantage Engineering P.O. Box 407 Greenwood, In 46142

Dear Harry Short

This will acknowledge receipt of your application for a permit to construct the facilities you indicated. Thestaff has reviewed the application and information submitted and finds that it is substantially complete. However, further reviewing might indicate that additional details are necessary.

Before the review can be completed, it will be necessary for you to submit the fee prescribed by 326 2-1-7.1. According to our preliminary review, the total fee will be \$200. This is based on:

\$200 Registration Review

Please remit a copy of this bill along with a check for the total fee above, payable to the Department of Environmental Management, to:

Cashier
Department of Environmental Management
Office of Air Management
100 N. Senate Avenue
P.O.Box 7060
Indianapolis, IN 46206-7060

Any questions or additional information should be directed to the Office of Air Management at the above address. Payment will help avoid a delay in your permit. Construction can not commence until a permit is issued. This document is not a permit. Also, please write "Air Construction Permit" on your check.

Sincerely.

Terrence H. Hoya
Terrence K. Hoya, Chief

Engineering Section

Office of Air Management

TKH/PJM

Ingineer	: P2E		Mail	
lant ID #	: 081-00029	·	Fax	
	:081-3420		Fax Number	
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Secr. Instr	type bill letter (Remember and make 2 copies. one copy for CP file one copy for PJM mail mail/fax bill letter to comenter CP number, billing da	lout folder pany as instructe	d above	
Company Nam	ne_ ADVANTAGE EN	NGINEERIN	G	
Mailing Add	100 BOX 407	-1		
City, State	- ZIP GREENWOOD, IN	J 46142_		
Attention	HARRY SHORT			
Phone Numbe	er 317/887-0729			
Facility D∈	escription frunt Boyothy			
Date Applic	cation Received 1//29/93		· · · · · · · · · · · · · · · · · · ·	
\$200 i \$3,000 s5,000 air que to the same times	for filing fee (for exemption for registration review 0 for construction permit revolution for PSD permit review (creduality impact study review \$3,000 if applicant does analtimes \$5,000 per pollutant if PSD BACT or LAER review \$2,500 for 2 to 5 review analtimes \$5,000 for 6 to 10 review analtimes \$10,000 for 11 or more review for a public hearing \$200 for each NSPS review \$200 for each NSPS review \$500 for each NESHAP review \$500 for each 326 IAC 8-1-6	view (credit for idit for filing feet lysis, or for one analysis) lyses, or alyses, or wanalyses equals \$equals \$_equals \$_equal	filing fee) (a) (b) (c) (c) (c) (d) (d)	ì
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		Refunds		
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2. Determ	nine the reason why a refund	is required		
3. Make a	copy of the receipts for th	ne CP File.		
4. Attach	the receipts to this sheet.	•		
Total Relu	ınd \$	Date refund	mailed	

RECEIPT

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ADVANTAGE ENGINEERING, INC. 525 EAST STOP 18 ROAD	
P. O. BOX 407 PEENWOOD, INDIANA 46142	11-19 19 93
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RECEIPT

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GREENWOOD, INDIANA 46142	20–1/740
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DATE 4.21.94 REPRESENT	
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Advantage Es CP#081-34 Regis 133.4-22-	120 - 000 29

FORM APPROVED BY STATE BOARD OF ACCOUNTS, 1992.

We make Indiana a cleaner, healthier place to live

Evan Bayh Governor Kathy Prosser Commissioner

April 12,1994

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

PERMIT NO.081-3420

RE: BILL FOR

Paint Booths

CERTIFIED MAIL P 352 042 375

Advantage Engineering P.O. Box 407 Greenwood, In 46142

Dear Harry Short

This will acknowledge receipt of your application for a permit to construct the facilities you indicated. The staff has reviewed the application and information submitted and finds that it is substantially complete. However, further reviewing might indicate that additional details are necessary.

Before the review can be completed, it will be necessary for you to submit the fee prescribed by 326 2-1-7.1. According to our preliminary review, the total fee will be \$200__. This is based on:

\$200 Registration Review

Please remit a copy of this bill along with a check for the total fee above, payable to the Department of Environmental Management, to:

Cashier
Department of Environmental Management
Office of Air Management
100 N. Senate Avenue
P.O.Box 7060
Indianapolis, IN 46206-7060

Any questions or additional information should be directed to the Office of Air Management at the above address. Payment will help avoid a delay in your permit. Construction can not commence until a permit is issued. This document is not a permit. Also, please write "Air Construction Permit" on your check.

1773 6 6 1894

GAGHIER/PAYROLL

Sincerely,

Terrence K. Hoya, Chief Engineering Section

evrene H. Hoya

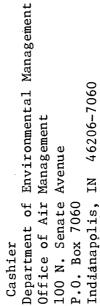
Office of Air Management

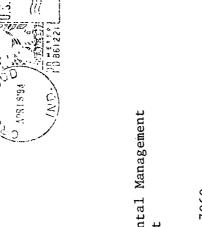
TKH/PJM



ADVANTAGE ENGINEERING INC.

525 E. STOP 18 RD. P.O. BOX 407 GREENWOOD, INDIANA 46142







Spraey Booth

Advantage Engineering Planning Engineer's Master Checklist

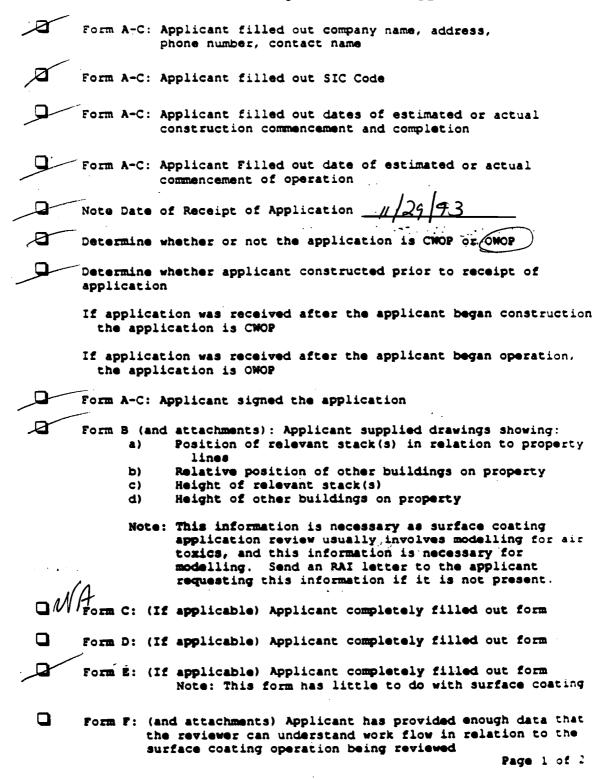
Effective Date: June 21, 1993

9	Initial Complete	eness Checkli	st		
	Level of Documen	t Checklist			
	Final Completen	ss Checklist			
1	Planning Engine	er's Summary			
	App.	lication is C	omplete Iden	Liftedian sheet	
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Surface Coating Permit Application Review

Initial Completeness Checklist



Form G: (If applicable) Applicant completely filled out form

Not generally applicable to surface coating unless a dry

material is stored in bulk (containers larger than 55

gallon drums) for use in coating operation

Form Q: (If applicable) Applicant completely filled out form

Not generally applicable to surface coating operations as

Form W-2 covers this subject

Form W-1: Applicant completely filled out form with the exception of column 10, each column must be filled out for every coating and solvent used. is also necessary to note which coatings and/or solvents are associated with which emission points described in Form W-2. Confirm that the applicant has included a "VOC Data Sheet" for each coating and solvent - both for "as supplied" condition and for "as applied" condition.Confirm that all densities, volatile and solids content figures are as delivered to the applicator. That is if the coating is diluted or "thinned" prior to application, the figures on Form W-1 must reflect this. If the applicant has not supplied "as applied" figures, use the RAI letter below to obtain the "as applied" values. Send the applicant a copy of EPA 450/3-84-019 "Procedure for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings" Chapter 3 to instruct him/her on approved methodology for calculating these values.

Form W-2: Applicant completely filled out form

Each column must be completely filled out for each

place that surface coatings and/or solvents are

applied to substrate. This form, if complete,

renders Form Q unnecessary.

Form Y1 thru Y4: Applicant completely filled out forms.

It is also necessary to attach a Material Safety
Data Sheet (MSDS) for each coating or solvent
applied. Only the part of the MSDS that states
the hazardous components of the coating or
solvent need be attached. Applicant estimates
hazardous emissions using MSDS data and form
W-1 dats

Prepare a Request For Additional Information (RAI) letter to notify the applicant of any information that prevented checking off any of the above items, as well as less crucial omissions, such as SIC code from form A-C.

or

Request For Additional Information is not necessary

After all items above are checked off, proceed to the Level of Document Checklist.

Desons

Level of Document Checklist

The first calculation needed is the state potential emissions. This is the absolute worst case: the equipment operating at full rated capacity for 8,760 hours per year, with no operative emission controls.

For surface coating operations, determining the rated capacity is rather subjective. In general, the applicant will state the maximum rate that he/she can feed substrate into the surface coating operation.

Calculate state potential emissions of VOC and particulate matter

Use the attached Spreadsheet to calculate the potential emissions of VOC and particulates using data from Form W-1.

- (Material) used. For each material use the density and volatile content of the material as delivered to the applicator, that is: if the coating is diluted or "thinned" prior to application, the density and volatile content must reflect that fact. This information must be supplied by the applicant, or calculated using the attached spreadsheet. If more than 15 coatings and/or solvents are used, copy the spreadsheets as necessary.
- 2) Enter the transfer efficiency expected from the following table:

Method of Application	Co	ated Surface	Type
Method of white	Flat	"Table Leg"	"Bird Cage"
Brush or Roller	100%	100%	100%
Flowcoating	100%	- 100%	100%
	100%	100%	100%
Electrocoating Dip-and-Drain	100%	100%	100%
Spray:	500	15%	10%
Air Atomization	50 % 75 %	104	103
Airless Electrostatic Disc	95%	90%	90%
Electrostatic Airless	80%	70%	70%
Electrostatic Air Atomized	75%	65%	65♥

*From AP-40, Pg. 859-461

- 3) If more than one coating is used, determine the coating that if used exclusively, will emit the greatest amount of VOC. Add this to the sum of emissions from all solvents. This is the state potential emission of VOC. Change spreadsheet formulas as necessary.
- 4) Repeat the process in above for particulate matter.
 You may use entirely separate "worst case" coatings for
 VOC and particulate matter.

75 day 2001 less 74m

Check for exemption

If the state potential emission of VOC is less than 15 pounds per day, and particulate emission is less than 25 pounds per day, then the facility or source in question is exempt pursuant to 326 IAC 2-1.

Check for registration

If the state potential emissions of both VOC and particulate matter (taken separately) are less than 25 tons per year each, but emission of VOC exceeds 15 pounds per day, or emissions of particulate matter exceeds 25 pounds per day; then the facility or source in question requires a registration pursuant to 326 IAC 2-1.

Check for permit

If the state potential emission of either VOC or particulate exceeds 25 tons per year, then the source or facility in question requires a permit pursuant to 326 TAC 2-1.

Page 2 of 2

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160 hr (Yg) = 11. ton (2000 1bst

Final Completeness Checklist

	Applicatio no furth	n requires a registration or exemption letter and er completeness review is necessary.
	or	
0	Applicatio	n requires a permit
	Form A-C:	Applicant has stated estimated total project cost
0	Estimated required	cost is less than \$10,000 - no further review is
		or
		mated cost is greater than or equal to \$10,000 - P.E. gnature is required
	0	P.E. signature and number is not present
		Application is not complete
		Send Request for Additional Information Letter to applicant, citing need for P.E. signature and number, enclose copy of 326 IAC 2-1-3 (d).
		or
		P.E. signature and number is present
		Application is complete

PJF



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Evan Bayh Governor Kathy Prosser Commissioner

March 11, 1994

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

CERTIFIED MAIL P 323 807 455

OFFICE OF AIR MANAGEMENT

Advantage Engineering, Inc. P.O. Box 407 Greenwood, IN 46142

Attention: Harry Short

Re: Permit Application for Construction Permit No. 081-3420

Ladies and Gentlemen:

Your application for four paint booths to be located at 525 East Stop 18 Road, Greenwood, Indiana was received on November 29, 1993. Sufficient data is not contained to act on this application.

Advantage has been classified back to Miscellaneous metal coating operations pursuant to 326 IAC 8-2-9. Unfortunately, Advantage Engineering Inc., change to waterborne paints have not successfully met 326 IAC 8-2-9 (d) requirements. Advantage Engineering Inc., pounds of VOC per gallon of coating less water (column 9), still fails to comply with part (d). Enclosed is an "EPA VOC Sheet, Basic Calculation" in order to help Advantage Engineering figure the pounds of VOC per gallon less water. Also enclosed is a calculation sheet which derived the pounds of VOC per gallon of coating less water by applying the "Basic Calculation Example." Furthermore, Article 8. Volatile Organic Compound Rules 326 IAC 8-1-2 presents compliance methods in order to comply with 326 IAC 8-2-9 (d). Please, describe how Advantage Engineering plans to comply with 326 IAC 8-2-9 part (d).

Your written response to this request for additional information must be received within 30 days of your receipt of this letter. If no written response or schedule of when this information will be provided is received within 30 days, your permit may be denied as a result of the incomplete application pursuant to 326 IAC 2-1-3 (f) (1).

Please contact me if you have any questions concerning this letter at the above address or via phone 317/233-0184. Please attach a copy of my letter to your response. Further review on this application can not be done until a response is received. Further questions may arise as the review proceeds.

Sincerely,

Penny J. Flickinger Environmental Scientist Office of Air Management

pjf

Enclosures: 326 IAC 8-1-2 Surface Coating Spread Sheet

EPA VOC data sheet, Basic Calculation

Sample Calculation Sheet



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Evan Bayh Governor Kathy Prosser Commissioner

March 2, 1994

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

CERTIFIED MAIL P323 807 898

OFFICE OF AIR MANAGEMENT

Advantage Engineering, Inc. P.O. Box 407 Greenwood, IN 46142

Attention: Harry Short

Re: Permit Application for Construction

Permit No. 081-3420

Ladies and Gentlemen:

Your application for four paint booths to be located at 525 East Stop 18 Road, Greenwood, Indiana was received on November 29, 1993. Sufficient data is

not contained to act on this application.

Advantage has been reclassified as a Large Appliance Coating Operation pursuant to 326 IAC 8-2-7 part (b). Unfortunately, Advantage Engineering Inc., change to waterborne paints have not successfully met 326 IAC 8-2-7 (b) Advantage Engineering Inc., pounds of VOC per gallon of coating less water (column 9), still fails to comply with part (b). Please, describe how Advantage Engineering plans to comply with 326 IAC 8-2-7 part (b).

To help Advantage Engineering Inc., derive the quantity of VOC emitted

from a coating, EPA VOC data sheet has been included.

Your written response to this request for additional information must be received within 30 days of your receipt of this letter. If no written response or schedule of when this information will be provided is received within 30 days, your permit may be denied as a result of the incomplete application pursuant to 326 IAC 2-1-3 (f) (1).

Please contact me if you have any questions concerning this letter at the above address or via phone 317/233-0184. Please attach a copy of my letter to your response. Further review on this application can not be done until a response is received. Further questions may arise as the review proceeds.

Environmental Scientist Office of Air Management

pjf

Enclosure: 326 IAC 8-2-7 Surface Coating Spread Sheet EPA VOC data sheet



We make Indiana a cleaner, healthier place to live a

Evan Bayh Governor Kathy Prosser Commissioner

December 10, 1993

105 South Meridian Street
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-6027

CERTIFIED MAIL P 215 679 311

OFFICE OF AIR MANAGEMENT

Advantage Engineering, Inc. P.O. Box 407 Greenwood, IN 46142

Attention: Harry Short

Re: Permit Application for Construction Permit No. 081-3420

Ladies and Gentlemen:

Your application for four paint booths to be located at 525 East Stop 18 Road, Greenwood, Indiana was received on November 29, 1993. Sufficient data is not contained to act on this application.

According to Air Management's calculations in the Surface Coating Spread Sheet (column 12 and 13), Advantage Engineering Inc. application for a permit will be classified as a registration.

However, pursuant to 326 IAC 8-2-9 part (d), Advantage Engineering Inc., pounds of VOC per gallon of coating less water (column 9), fails to comply with part (d). Please, describe how Advantage Engineering plans to comply with 326 IAC 8-2-9 part (d).

Your written response to this request for additional information must be received within 30 days of your receipt of this letter. If no written response or schedule of when this information will be provided is received within 30 days, your permit may be denied as a result of the incomplete application pursuant to 326 IAC 2-1-3 (f) (1).

Please contact me if you have any questions concerning this letter at the above address or via phone 317/233-6875. Please attach a copy of my letter to your response. Further review on this application can not be done until a response is received. Further questions may arise as the review proceeds.

Sincerely,

Penny J. Flickinger Environmental Scientist Office of Air Management

pjf

Enclosure: 326 IAC 8-2-9

Surface Coating Spread Sheet



November 19, 1993

Cashier
Department of Environmental Management
P.O. Box 7060
Indianapolis, IN 46206-7060

To whom it may concern;

Please find enclosed our check in the amount of \$100.00, representing the filing fee for the enclosed construction permit application.

Our application is for source registration as required by statute.

Yours truly,

Harry Short

HS/sap Encl. Check

RECEIVED

[661 6 2 AON]

State Or ma end Department of Environmental Managemant Office Of Air Managemant



RECEIVE.

STATE OF INDIANA FORM A-C DEPARTMENT OF ENVIRONMENTAL MANAGEMENT() V 2 (1993) OFFICE OF AIR MANAGEMENT

CONSTRUCTION PERMIT APPLICATION

State of Indiana Penartment of Environmental Management Office of Air Management

GENERAL INFORMATION

Company Name Advantage Engineering Inc.
Phone 317-887-0729
Mailing Address P.O. Box 407 Greenwood, IN 46142
Street, P.O. Box City Zip Code
New Construction Location 525 E. Stop 18 Rd. Greenwood, Johnson No., St., Rd., Hwy. City County
Person to Contact on Matters of Air Pollution:
Name Harry Short
Title Vice President Phone 317-887-0729 If you have changed company name or location in the past six (6)
If you have changed company name or location in the past six (6) years, please list the previous name(s) and location(s):
Name N/A
Location
Standard Industrial Classification Code 3559 (if you do not know, a short description of business will suffice)
What is being installed? Paint Booths
Is construction an entirely new plant? No
Estimated Cost of Project\$
Estimated Cost of Air Pollution Control Equipments N/A
Estimated date construction will start Completed
Estimated date construction will be completeCompleted
Estimated date operation will begin In operation
I hereby certify that the information submitted this 19th day of 19 93 is true and correct to the best of my knowledge.
Signature Many Sho
Title Vice President
Plans and Specifications Approved By: J.W. Bloemer, P.E.
Indiana P.E. License No. PE 60890090

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

Process Information

Company Name	•	NOT	Applicable X
company name	Advantage Engineering,	Inc.	
Products Produc e d	Refrigerated Machi	nery and related	products
Raw Material Rate	(use an additional	sheet if need	ied)
	TYPE MATERIAL	RATE (LB/	(HR)
	Steel Products	400	
	Coatings	6	
		 	
Finished Product			
Pounds/Hour	Maximum 406	Normal	. 406
•			sheet if
Process Identific	ation:		
Process Identification Paint Booths Type of Control Efficiency 98 For Dry Collector STACK DATA	Dry filters	cted	
Paint Booths Type of Control Efficiency 98 For Dry Collector STACK DATA Stack Identificat	Dry filters 3% s, Tons/year Collec	out	
Paint Booths Type of Control Efficiency 98 For Dry Collector STACK DATA Stack Identificat Height (ft. above	Dry filters 3% s, Tons/year Collect ion See plant lay ground) See plant	out layout	
Paint Booths Type of Control Efficiency 98 For Dry Collector STACK DATA Stack Identificat Height (ft. above	Dry filters 3% s, Tons/year Collection See plant lay	out layout	
Paint Booths Type of Control_ Efficiency 98 For Dry Collector STACK DATA Stack Identificat Height (ft. above Diameter (ft. insi	Dry filters 3% s, Tons/year Collection See plant lay ground) See plant de) See plant layo	out layout out Ambient	
Type of Control Efficiency 98 For Dry Collector STACK DATA Stack Identificat Height (ft. above Diameter (ft. insi	Dry filters 3% s, Tons/year Collection See plant lay ground) See plant layo de) See plant layo perature(Deg F) fm) See plant layo	out layout out Ambient	
Process Identificat Paint Booths Type of Control	Dry filters 3% s, Tons/year Collection See plant lay ground) See plant layo de) See plant layo perature(Deg F) fm) See plant layo	out layout out Ambient	

FORM G

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

Storage and Handling of Bulk Material

Company Name			No	ot Applicable X
Material Handled	Method of Handling	Silo, Bin or Pile	Storage Capacity _(Tons)	Maximum Throughput (Tons/Yr) (Lb/Hr)
		· · · · · · · · · · · · · · · · · · ·		
Dust Control Metho	ods			
Process				
Type of Control				

indiana Department of Environmental Management Office of Air Management

PARTICULATE CONTROL DEVICES

GENERAL INFORMATION

Emission point identification (complete a separate page for each device) N/A
Percent of Particulate Matter less than 10 microns at the outlet%
Grain loading per actual cubic foot of outlet air, Average gas Temperature°F
Design percentage collection efficiency% (1- Weight Leaving) X100
SPECIFIC COLLECTOR INFORMATION (Weight Entering)
A. CYCLONE
Number of tubes, Tube diameterin.
B. BAGHOUSE
Bag material
Total filter areaft ² , Air to cloth ratioacfm/ft ²
Pressure drop across baghouseinches of water
Method of bag cleaning (ie. shaking, jetpulse etc)
C. ELECTROSTATIC PRECIPITATOR (ESP)
Type of ESP: Wet, Dry, Hot Side, Cold Side
Face velocity across the platesft/sec, Total face surface areaft2
Number of fields along flow path, Gas conditioning agent
Delay time between starting of system and ESP unit operation
Why?
D. WET COLLECTORS (Scrubber Type
Pressure drop across scrubberinches of water, Flow Rategpm
Scrubbing liquor, Liquid to air ratiogpm/10 ³ acfm
Is there a demister following the scrubber?
Settling pond: volumeft ³ , Depthft, Widthft, Lengthft,
Diameter (if circular)

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

SURFACE COATING AND ACCESSORY SOLVENTS

Company Name Advantage Engineering Inc.

Process or Booth Identification (1)	001	002	003	004
Application Method (2)	Spray	Spray	Spray	Spray
If sprayed Specify type (3)	Air Atom.	Air Atom.	Air Atom.	Air Atom.
Type of Overspray controls (4)	Dry Filter	Dry Filter	Drv Filter	Dry Filter
Control Efficiency	98%	98%	98%	98%
Type of Hydrocarbon controls (5)	N/A	N/A	N/A	_N/A
Control Efficiency	N/A	N/A	N/A	N/A
Stack Height (feet above ground)	12.5	12.5	15.0	15.0
Stack Diameter (inches)	2.67	2.67	2.67	2.67
Exhaust flow Rate (acfm)	18,200	18,200	18,200	18,200
Exhaust Discharge Temperature °F	Ambient	Ambient	Ambient	Ambient

Operating Schedule: 24 hours/day 6- days/week 52 weeks/year

- 1. Use identifiers from forms B and F.
- 2. Method of application refers to dipping, spraying, rollcoating, brushing, flowcoating, or other.
- 3. Types of spray coating include: air atomization, airless, electrostatic disc, electrostatic airless, electrostatic air atomized, low pressure air atomization, low pressure-high volume, or other.
- 4. Overspray controls include: dry and wet filters, baffles, waterwash, or other.
- 5. Hydrocarbon controls include: catalytic or direct flame incineration, solvent recovery, carbon adsorption, or other.

FORM B

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

Plant Layout and GEP Stack Height Information Sheet

Company	Name	Adva n tage	E n gineering	Inc.

This permit application must include a plant layout(s) showing the following information:

- 1. Drawings, several, if necessary, but each one must be to scale, with actual scale shown. All dimensions must be clearly indicated. This includes building heights, widths, and lengths, and their distance relationship with the property line. It should also indicate where fences or other access-limiting features exist.
- 2. The layout must show the location of all emission points (exhaust stacks, roof monitors, control devices, or process vents, etc.). Identify each of these emission points under "Stack Identification" on the appropriate forms.
- 3. The layout(s) must show all roadways and description of roadway surfaces.
- 4. The layout(s) must include a compass pointing north.

See attached plant layout.

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

Incinerator Information

			Not	Applicable_	X
Company Name					
Manufacturer	Model				
(Furnish sketch with dimensions)					
Design Capacity lb/hr					• .
Type of Waste Burned (Be Specific)					
Check one: Single Chamber w/Afterburne	r	Multiple	Chambers		
Burner in Primary Chamber? Yes	_ No				
Burner in Secondary Chamber? Yes	_ мо				
Type of Fuel					
Chamber Primary	Secon	dary		•	
Residence Time (sec)		<u>.</u>		٠.	
Temperature (°F)				e de la companya de l	
					•
STACK DATA					
Stack Identification					
Height (ft above ground)					
Diameter (ft inside)					
Gas discharge Temperature (°T)					
Gas Flow Rate (acfm)				2 × 2	
				.W *	
OPERATION SCHEDULE	.5			e, Jac	•
grade Arten					
Hours/Day					
Days/Week					
Weeks/Year					

Revised 9/22/33

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

SURFACE COATING AND ACCESSORY SOLVENTS

Company Name Advantage Engineering

Material (Coatings, Solvents, Etc.) Paint Primer Thinner	Primer	Thinner						
ldentification: Number Limco-95 Y-38125 Y-38645	Limco-95	Y-38125 Y-38645						
Mascrial Density Lb/Gal 9.58 9.43	9.43	7.5		1	·			
Weight % Volatiles (Water and Organics) 62.8 49.4	49.4	100						
Weight % Water 0	0 -:	0			٠			
Volume % Water	0 :	0	•		·		•	
Volume % Non-volatiles (Solids) 42.1 35	35	0				·		
Gallons of Material* Required for One Production Unit Gal / Production Unit 1.98 0.47	0.47	1.01	•				•	
Maximum Number of Production Units per Hour 0.2 0.2 0.2	0.2	0.2				,		
	468	999		٠				
Process or Booth I. D. 001-004 001-004	001-004	001-004						

If different types or sizes of units are coated in the same paint booth with the same coating, this amount should be
 based on the production unit requiring the most gallons per hour. Gallons per hour. = Column 8 x Column 9. If different coatings are used, they must be listed as a separate material.

Section I (Product Identification), Section II (Composition Information), and Section III (Physical Property Information). Attach a Material Safety Data Sheet (MSDS) for each material listed. DO NOT SEND THE ENTIRE MSDS. The required sections are:

Density, Weight % Volatiles, and Weight % Water are determined by methods listed in 326 IAC 8-1-4

^{••} Complete this column for operation permit renewals only.

FORM F

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

Flow Diagram

•	•	Not Applicable
Company Name	Advantage Engineering	

This permit application must include a simple flow diagram of your operation from raw materials input to the finished products. Show points of emission including stacks. Show location of air pollution control equipment, the process it controls, and removal efficiency. State the maximum hourly capacity of each step of the operation.

See attached plant layout

Air Toxic Pollutants

Compa	any Name_	A d vantage Engineer	ing Inc.	
Locat	$10n_{525}$	E. Stop 18 Road, Green	wood, Indiana 46	142
				
Place	an "X" b	eside each compound list	ed on forms Y1 throu	igh Y4 that will be
emit	ed into t	the air from the equipmen	t covered in this ap	plication. Attach
Sect	lons I. I	I. and III (only) of M.	aterial Safety Data	Sheets (MSDS) for
each	toxic cor	staining material. List	all emission points	(as identified on
the	site plot	plan) for each compoun	d. Include stack	Darameters for
each	listed	air toxic emission po	int on the appro	priate form
			one on one upplo	P11110 1012.
•	CAS	<u>CHEMICAL</u>	EMISSION	MAXIMUM EMISSION
X	NUMBER	NAME	POINTS	RATE (POUNDS/HR)
				
	00075070	Acetaldehyde		
	00060355	Acetamide		
	00075058	Acetonitrile		
=	00098862	Acetophenone		
	00053963	2-Acetylaminofluorine	<u></u>	
	00107028	Acrolein		
	00079061	Acrylamide	<u>·</u>	
	00079107	Acrylic Acid		
	00107131	Acrylonitrile		
	00107051	Allyl chloride		
	00092671	4-Aminodiphenyl		
	00062533	Aniline		
	29191524	o-Anisidine		
	01332214	Asbestos	 -	 -
	00071432	Benzene (including from gas	oline)	
_	00092875	Benzidine		
_	00 098 077 00100 44 7	Benzotrichloride		·
_	00092524	Benzyl chloride		
_	00117817	Biphenyl Bis (2-ethylhexyl) phthalat		
	00542881	Bis(chloromethyl)ether		
	00075252	Bromoform		
	00106990	1,3-Butadiene	·	
	00156627	Calcium cyanamide		
	00105602	Caprolactam		
_	00133062	Captan		
_	00063252	Carbaryl		
	00075150	Carbon disulfide		
_	00056235	Carbon tetrachloride		
	00463581	Carbonyl sulfide		
	00120809	Catechol (1,2-dihydroxyloen	zene)	
	00133904	Chloramben		
	00057749	Chlordane	<u> </u>	
	077 82505	Chlorine		
	00079118	Chloroacetic acid		
	00532274	2-Chloroacetophenone		
	00108907	Chlorobenzene		
	00510156	Chlorobenzilate		
	00067663	Chloroform		
	00107302	Chloromethyl methyl ether		
	00126998	Chloroprene		
	01319773	Cresols/Cresylic acid		
		(isomers and mixtures)	•	

00095487

00108394

00106445 00098828

00095757

03547044

o-Cresol

m-Cresol p-Cresol

Cumene

DDE

2,4-D, salts and esters

Air Toxic Pollutants

		Air Toxic Pollutants		
	<u>cas</u>	CHEMICAL	EMISSION	MAXIMUM EMISSION
X	NUMBER	NAME	POINTS	RATE (POUNDS/HR)
	00334883	Diazomethane		
	00132649	Dibenzofurans		
	00096128	1,2-Dibromo-3-chloropropane		
	00084742	Dibutylphthalace		
	00106467	1,4-Dichlorobenzene (p)		
	00091941	3,3-Dichlorobenzidene		
	00111444	Dichloroethyl ether		
		(Bis (2-chloroethyl)ether)		
	00542756	1,3-Dichloropropene		
	00062737	Dichlorvos (DDVP)		
—	00111422	Diethanolamine		
—	00121697	N,N-Diethyl aniline		
		(N, N-Dimethylaniline)		
	.00064675	Diethyl sulfate		
	00119904	3,3'-Dimethoxybenzidine		
_	00060117 00119937	Dimethyl aminoazobenzene		
		3,3'-Dimethyl benzidine		
_	00079447 00068122	Dimethyl carbamoyl chloride Dimethyl formamide		
	00057147	1,1-Dimethyl hydrazine		
	00131113	Dimethyl phthalate		
	00077781	Dimethyl Sulfate		
	00534521	4,6-Dinitro-o-cresol, and salts		
_	00051285	2,4-Dinitrophenol		
_	00121142	2.4-Dinitrotoluene		
	00123911	1,4-Dioxane (1,4-Diethyleneoxide)		
	00122667	1,2-Diphenylhydrazine		
=	00106898	Epichlorohydrine		
_		(1-Chloro-2,3-epoxypropane)		
	00106887	1,2-Epoxybutane		
	00140885	Ethyl acrylate		
<u>X</u>	00100414	Ethyl benzene	<u>001-004</u>	0.09
	00051796	Ethyl carbamate (Urethane)		
<u>x</u>	00075003	Ethyl chloride (Chloroethane)		
_	00106934	Ethylene dibromide (Dibromoethane)		
· —	00107062	Ethylene dichloride		
	00107211	(1,2-Dichloroethane) Ethylene Glycol		
_	0015/211	Ethylene imine (Aziridine)		
—	00075218	Ethylene Oxide		
_	00075218	Ethylene thiourea	 ·	
_	00075343	Ethylidene dichloride		
	000.5510	(1,1-Dichloroethane)		
	00050000	Formaldehyde		
	00076448	Heptachlor		
	00118741	Hexachlorobenzene		
_	00087683	Hexachorobutadiene		
	00077474	Hexachlorocyclopentadiene		
	00067721	Hexachloroethane		
	00822060	Hexamethylene-1,6-diisocyanace		
	00680319	Hexamethylphosphoramide		
	00110543	Hexane		
	00302012	Hydrazine		
	07647010	Hydrochloric acid		
	07664393	Hydrogen fluoride (Hydrofluoric acid)		
_	07788064	Hydrogen sulfide		
	00123319	Hydroquinone		
	00078591	Isophorone		
	00058899	Lindane (all isomers)		
-	00108316	Maleic anhydride	001 007	0.06
<u> </u>	00067561	Methanol	001-004	
	00072435	Methoxychlor		

Air Toxic Pollutants

		Air Toxic Pollutants		
	CAS	CHEMICAL	<u>EMISSION</u>	MAXIMUM EMISSION
X	NUMBER	NAME	POINTS	RATE (POUNDS/HR)
	•			
	00074839	Methyl Bromide (Bromomethane)		
	00074873	Methyl chloride (Chloromerhane)		
	00071556	Methyl Chloroform		
_		(1,1,1-Trichloroethane)		
	00078933	Methyl ethyl ketone (2-Butanone)		
_	00060344	Methyl hydrazine		
_	00074884	Methyl iodide (Iodomethane)		
_	00108101	Methyl isobutyl ketone (Hexone)		
_	00624839	Methyl isocyanate		
	00080626	Methyl methacrylate		
	01634044	Methyl tert butyl ether		
_	00101144	4,4-Methylene		
_	**********	bis(2-chloroaniline)		
	00075092	Methylene chloride (Dichloromethane)		
_	00101688	Methylene diphenyl diisocyanate (MDI)		
	00101779	4,4'-Methylenedianiline		
	00091203	Naphthalene		
	00098953	Nitrobenzene		
	00092933	4-Nitrobiphenyl		
	00100027			
	00079469	4-Nitrophenol 2-Nitropropane		
	00684935	• •		
	00062759	N-Nitroso-N-methylurea		
	00059892	N-Nitrosodimethylamine		
	00056382	N-Nitrosomorpholine Parathion		
	00082688	Pentachloronitrobenzene (Quintobenzene)		
	00087865			
	00108952	Pentachlorophenol Phenol		
_	00106503	· · · · · · · ·		
	00104303	p-Phenylenediamine		
—	07803512	Phospene		
	07723140	Phosphine		
	00085449	Phosphorus		
		Phthalic anhydride		
_	01336363	Polychlorinated biphenyls (Aroclors)		
	01120714	1,3-Propane sultone		
	00057578	beta-Propiolactone		
. —	00123386	Propionaldehyde		
	00114261	Propoxur (Baygon)		
	00078875	Propylene dichloride		
	00075569	(1,2-Dichloropropane)		
		Propylene Oxide		
	00075558	1,2-Propylenimine		
		(2-Methyl aziridine)		
	00091225	Quinoline		
	00106514	Quinone		
	00100425	Styrene		
<u> </u>	00096093	Styrene oxide		
. —	01746016	2,3,7,8-Tetrachlorodibenzo		
		-p-dioxin		
	00079345	1,1,2,2-Tetrachloroethane		
	00127184	Tetrachloroethylene		
		(Perchloroethylene)		
	07550450	Titanium tetrachloride		
<u>X</u>	00108883	Toluene	<u>001-004</u>	0.30
	00095807	2,4-Toluene diamine		
	00584849	2,4-Toluene diisocyanate		
	00095534	o-Toluidine		
	08001352	Toxaphene (chlorinated camphene)		
	00120821	1,2,4-Trichlorobenzene		
	00079005	1,1,2-Trichloroethane		
_	00079016	Trichloroethylene		
	00095954	2,4,5-Trichlorophenol		
-				

Air Toxic Pollutants

	CAS	CREMICAL	EMISSION	MAXIMUM EMISSION
X	<u>number</u>	NAME	POINTS	RATE (POUNDS/HR)
	00088062	2,4,6-Trichlorophenol		
	00121448	Triethylamine		
	01582098	Trifluralin		
	00540841	2,2,4-Trimethylpentane		
	00108054	Vinyl acetate		
	00593602	Vinyl bromide		
_	00075014	Vinyl Chloride		
	00075354	Vinylidene chloride		
		(1,1-Dichloroethylene)		
<u>X</u>	01330207	Xylenes (isomers and mixture)	001-004	0.60
	00095476	o-Xylenes		
_	00108383	m-Xylenes		
	00106423	p-xylenes		
		Antimony Compounds		
		Arsenic Compounds		
		(inorganic including arsine)		
		Beryllium Compounds		
		Cadmium Compounds		
		Chromium Compounds		
		Cobalt Compounds		
		Coke Oven Emissions		
		Cyanide Compounds 1		
_		Glycol ethers ²	 ,	
		Lead Compounds		
_		Manganese Compounds		
_		Mercury Compounds		·
_		Mineral Fibers ³		
				
		Nickel Compounds		
—;		Polycyclic Organic Matter		
		Radionuclides (Including Radon) ⁵		
		Selenium Compounds	· <u> </u>	
_		HOME OF THE COMPOUNDS LISTED OF	FORMS Y1 TE	

NOTE: FOR ALL LISTINGS ABOVE WHICH CONTAIN THE WORD "COMPOUND" AND FOR GLYCOL ETHERS THESE LISTINGS ARE DEFINED AS INCLUDING ANY UNIQUE CHEMICAL SUBSTANCE THAT CONTAINS THE NAMED CHEMICAL AS PART OF THAT CHEMICAL'S INFRASTRUCTURE.

- 1 X'CN where X=H' or any other group where a formal dissociation may occur. For example KCN or Ca(CN)₂
- includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH2CH2)n-OR* where: n= 1, 2, or 3; R= alkyl or aryl groups; and R*= R, H, or groups which, when removed, yield glycol ethers with the structure R-(OCH2CH2)n-OH. Polymers are excluded from the glycol category.
- 3 includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
- 4 includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 degrees Celsius.
- 5 a type of atom which spontaneously undergoes radioactive decay.

DO NOT SEND ENTIRE MATERIAL SAFETY DATA SHEETS (MSDS). The required sections are: Section I (Product Identification), Section II (Composition Information), and Section III (Physical Property Information).



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Evan Bavh Governor Kathy Prosser Commissioner

105 South Meridian Street P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

TO:

Applicant

FROM:

Kathy Prosser, Commissioner

SUBJECT: Identification of Potentially Affected Persons

The Administrative Orders and Procedures Act (IC 4-21.5-3-5) requires that the Department of Environmental Management give notice of its decision on your application to the following persons:

(a) each person to whom the decision is specifically directed;

(b) each person to whom a law requires notice be given;

(c) each competitor who has applied to the DEM for a mutually exclusive license, if issuance is the subject of the decision and the competitor's application has not been denied in an order for which all rights to judicial review have been waived or exhausted;

(d) each person who has provided the DEM with a written request for

notification of the decision;

(e) each person who has a substantial and direct proprietary interest in the issuance of the (permit) (variance);

- (f) each person whose absence as a party in the proceeding concerning the (permit) (variance) decision would deny another party complete relief in the proceeding or who claims an interest related to the issuance of the (permit) (variance) and is so situated that the disposition of the matter, in the person's absence may:
 - (1) as a practical matter impair or impede the person's ability to protect that interest, or
 - (2) leave any other person who is a party to a proceeding concerning the permit subject to a substantial risk of incurring multiple or otherwise inconsistent obligations by reason of the person's claimed interest.

IC 4-21.5-3-5(f) provides that we may request your assistance in identifying these people. Our failure to properly identify and notify these people of the decision could have the result of voiding any decision which is made.

As part of your application, identify those people who you believe are entitled to notice by IC 4-21.5-3-5. I am especially interested in your identifying those addressed under subdivisions (e) and (f) above.

Your assistance in identifying these people will help ensure that the legislator's intent is met and the decision made by the DEM is upheld upon administrative or

Thank you for your cooperation. If there are any questions, please contact the Office of Air Management at (317) 232-8384.

IDENTIFICATION OF POTENTIALLY AFFECTED PERSONS

Please read the attached letter from the Commissioner, and list here any persons whom you have reason to believe have a substantial or proprietary interest in this matter, or could otherwise be considered to be potentially affected under the law. Failure to notify a person who is later determined to be potentially affected could result in voiding our decision on procedural grounds. To ensure conformance with the Administrative Adjudication Act and to avoid reversal of a decision, please list all such parties. Use additional sheets if necessary.

NAME	NAME
STREET	STREET
CITY, STATE, ZIP	
NAME	
STREET	STREET
CITY, STATE, ZIP	
NAME	
STREET	
CITY, STATE, ZIP	
CHECK APPROPRIATE BOX	ADDRESS OF SITE:
Construction Permit	Street
Operation Permit	City
☐ Variance	
Other	
Please complete this form by signing	the following statement:
I certify that to the best of my known parties, as defined by IC 4-21.5, known to such parties are known.	vledge I have listed all potentially affected me. If none are listed it signifies that
	SIGNATURE
	PRINTED NAME
	COMPANY



addlinge CP# 081-3420

RECEIVED

DEC 27 1993

December 20, 1993

Indiana Department of Environmental Management 105 S. Meridian Street P.O. Box 6015

State Criticalia Department of Environmental Management Office Of Air Management

Indianapolis, IN 46206-6015

Attention: Penny J. Flickinger

Office of Air Management

Reference: #081-3420

Dear Ms. Flickinger:

Thank you for your letter of December 10, 1993 explaining 326 1AC 8-2-9 part (d). Our consultant was of the understanding that this rule applied to permit application requiring permitting as opposed to registration.

If this rule applies to registration applications then we must work with our suppliers to acquire water base paints or high solids paint for our products. These coatings are typically much more expensive or require ovens or heat application for proper curing.

I will send a follow-up letter once I have additional knowledge on alternative coatings which can be applied in our case.

I respectfully request 60 days from todays date to specify our compliance to 326 1AC 8-2-9 part (d). Your cooperation will be much appreciated.

Yours truly,

Harry Short

HS/sap

Encl. IDEM Letter, 12/10/93

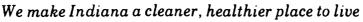
cc: J.W. Bloemer P.E.

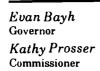
JWB Environmental Engineering

10324 Briar Creek Place

Carmel, IN 46033

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT





December 10, 1993

105 South Meridian Street P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

CERTIFIED MAIL P 215 679 311

OFFICE OF AIR MANAGEMENT

Advantage Engineering, Inc. P.O. Box 407 Greenwood, IN 46142

Attention: Harry Short

Re: Permit Application for Construction

Permit No. 081-3420

Ladies and Gentlemen:

Your application for four paint booths to be located at 525 East Stop 18 Road, Greenwood, Indiana was received on November 29, 1993. Sufficient data is not contained to act on this application.

According to Air Management's calculations in the Surface Coating Spread Sheet (column 12 and 13), Advantage Engineering Inc. application for a permit will be classified as a registration.

However, pursuant to 326 IAC 8-2-9 part (d), Advantage Engineering Inc., pounds of VOC per gallon of coating less water (column 9), fails to comply with part (d). Please, describe how Advantage Engineering plans to comply with 326 IAC 8-2-9 part (d).

Your written response to this request for additional information must be received within 30 days of your receipt of this letter. If no written response or schedule of when this information will be provided is received within 30 days, your permit may be denied as a result of the incomplete application. pursuant to 326 IAC 2-1-3 (f) (1).

Please contact me if you have any questions concerning this letter at the above address or via phone 317/233-6875. Please attach a copy of my letter to your response. Further review on this application can not be done until a response is received. Further questions may arise as the review proceeds.

Penny J. Flickinger Environmental Scientist

Office of Air Management

pjf

326 IAC 8-2-9 Enclosure:

Surface Coating Spread Sheet

. .

to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety degrees Celsius (90°C) (one hundred ninety-four degrees Fahrenheit (194°F)).

- (3) Forty-two hundredths (0.42) kilograms per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies extreme performance coatings designed for exposure to temperatures consistently above ninety-five degrees Celsius (95°C), detergents, abrasive or scouring agents, solvents, corrosive atmospheres, outdoor weather at all times, or similar environmental conditions.
- (4) Thirty-six hundredths (0.36) kilograms per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.
- (e) If more than one (1) emission limitation in subsection (d) applies to a specific coating, then the least stringent emission limitation shall be applied.
- (f) Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized. (Air Pollunian Control Loard; 326 IAC 8-2-9; filed Feb 9, 1988, 2:07 p.m.: 11 IR 1736; filed Mar 10, 1988, 1:20 pm: 11 IR 2534; filed Apr 18, 1990, 4:55 p.m.: 13 IR 1678)

Cited in: 328 IAC 8-1-2; 336 IAC 8-2-1.

326 IAC 8-2-10 Flat wood panels; manufacturing operations

Authority: IC 13-1-1-4; IC 13-7-7 Affected: IC 13-1-1-1; IC 13-1-1-4; IC 13-7-1-1; IC 13-7-7

Sec. 10. (a) This section establishes the emission limitations for flat wood manufacturing and surface finishing of the following:

- (1) Printed interior panels made of hardwood plywood and thin particle board. "Printed interior panels" means panels whose grain or natural surface is obscured by fillers and basecoats upon which a simulated grain or decorative pattern is printed. "Hardwood particleboard" is a manufactured board one-fourth (1/4) inch or less in thickness made of individual wood particles which have been coated with a binder and formed into flat sheets by pressure.
- (2) Natural finish hardwood plywood panels. "Natural finish hardwood plywood panels" means panels whose original grain pattern is enhanced by essentially transparent finishes frequently supplemented by fillers and toners.
- (3) Hardboard paneling with Class II finishes. "Hardboard" is a panel manufactured primarily from inter-felted ligno-cellulosic fibers which are consolidated under heat and pressure in a hot press. "Class II finish" means finishes which meet the specifications of Voluntary Product Standard PS-59-73 as approved by the American National Standards Institute.
- (b) This section does not apply to coating lines used solely in the manufacture of exterior siding, tileboard, or particleboard used as a furniture component. "Tileboard" means paneling that has a colored waterproof surface coating.
- (c) If a coating line is used both for coating paneling subject to this section as described in subsection (a), of this section and for paneling exempt from this section as described in subsection (b), of this section, then any control equipment installed on such line shall be operated at all times when such line is in use.
- (d) No owner or operator of a flatwood manufacturing facility subject to this section shall emit volatile organic compounds from a coating line in excess of:
 - (1) 2.9 kg per 100 square meters of coated finished product (6.0 lb/1,000 sq ft) from

326 IAC 8-2-8

AIR POLLUTION CONTROL BOARD

x (1) Any metal parts or products limited by other sections of this rule.

- (2) Exterior of airplanes.
- (3) Automobile refinishing.
- ×(4) Customized top coating of automobiles and trucks, if production is less than thirtyfive (35) vehicles per day.
- > (5) Exterior of marine vessels.
- O(6) Maintenance coatings of production equipment.
 - (7) The application of adhesives or preparation of adhesives.
 - (8) Lubricants used to prevent sticking of internally moving parts.
- √(9) Chromium plated plastics.
- \downarrow (10) The application of coatings to burial caskets (Standard Industrial Classification Code 3995) if the source is not located in or adjacent to a county designated as nonattainment for ozone.
- (c) Commencing July 1, 1991, the operations described in subsection (b)(6) through (b)(9) shall comply with the requirements of this section.
- (d) No owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of the The state of the s following
 - (1) Fifty-two hundredths (0.52) kilograms per liter (four and three-tenths (4.3) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies clear coatings. A clear coating is a coating that lacks color or opacity and is transparent and uses the undercoat as a reflectant base or undertone color.
 - (2) Forty-two hundredths (0.42) kilograms per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered

period). (Air Pollution Control Board; 326 IAC 8-2-7; filed Mar 10, 1988, 1:20 pm: 11 IR 2534) Cited in: 326 IAC 8-1-2; 326 IAC 8-1-3; 326 IAC 8-2-1.

326 IAC 8-2-8 Magnet wire coating operations

Authority: IC 13-1-1-4; IC 13-7-7 Affected: IC 13-1-1-1; IC 13-1-1-4; IC 13-7-1-1: IC 13-7-7-5

- Sec. 8. (e) This section establishes the emission limitations for the process of applying a coating of electrically insulating varnish or enamel to aluminum or copper wire for use in electrical machinery.
- (b) No owner or operator of a magnet wire coating oven subject to this section may cause, allow or permit the discharge into the atmosphere of any volatile organic compounds in excess of 0.20 kilograms per liter of coating (1.7 pounds per gallon) excluding water, delivered to the coating applicator from magnet wire coating operations. (Air Pollution Control Board; 326 IAC 8-2-8; filed Mar 10, 1988, 1:20 pm: 11 IR 2534)

Cited in: 328 IAC 8-1-3; 326 IAC 8-2-1.

326 IAC 8-2-9 Miscellaneous metal coating operations

Authority: IC 18-1-1-4; IC 18-7-7 Affected: IC 13-1-1-1; IC 13-7-1-1; IC 13-7-7-5

Sec. 9. (a) This section is applicable to the surface coating of the following:

- (1) Large and small firm machinery.
- (2) Small household appliances.
- (3) Office equipment.
- (4) Industrial machinery.
- (5) Any other industrial category which coats metal parts or products under the Standard Industrial Classification Code of major groups #33, #34, #35, #36, #37, #38, and #39.
- (b) This section is not applicable to the surface coating of the following metal parts and products or to the following types of coating except as indicated in subsection (c):

882

State Potential VOC and Particulate Emissions From Surface Coating Operations Advantage Engineering, Inc. Greenwood, Indiana 12/3/93

Penny Flickinger

		7.3	19.0	104.0	1.3	18.17	18.17			lsolvents	ing to al.	Add worst case coating to all solvents	Add worst			State Potential Emissions
109	#DIV/0!	0.00	6.64	36.36	1.52	7.50	7.50	0.20	1.01000	0.01	0.01	100.01	0.0%	100.01	7.5	Thinner
109	13.31	1.77	1.92	10.51	0.1	4.66	4.66	0.20	0.47000	35.01	0.01	49.43	0.01	49.41	9.43	Primer
100	14.29	5.56	10.44	57.18	2.38	6.02	6.02	0.20	1.98000	42.15	0.01	62.8%	0.01	62.81	9.58	Paint
							less water							Organics)		
	solids	ton/yr	per year	f coating per hour per day per year	per hour	of coating	of coating			(solids)				(H204		
/gal Efficiency	/gal	_	VOC tons	VOC pounds	VOC pounds	per gallon	(gal/unit) (unit/hour) per gallon p	(unit/hour)	(gal/unit)	Non-Vol	Water	Water Organics Water	Water	Volatile	(IP)/G#1)	
Transfer	P VOC	ounds VOC Potential Potential Potential Particulate 1b VOC Transfer	Potential	Potential	Potential	Pounds VOC	Pounds VOC Po	Max imum	Density Weight & Weight & Weight & Volume & Volume & Gal of Mat Haximum	Volume 1	Volume 1	Weight 1	Weight 1	Weight &	Density	Material
16	15	14	ະ	(·12	1	10	۰		7	6	5	-	u	2	-	ı

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight & Organics) / (1 - Volume & water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight & Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * (24 hrs / 1 day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * (8760 hr/yr) * (1 ton / 2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1 - Weight & Volatiles) * (1 - Transfer efficiency) * (8760 hr/yr) * (1 ton / 2000 lbs)

Pounds VOC per Gallon of Solids = (lbs/gal) * (weight & organics) / (Volume & solids)

Total = Worst Coating + Sum of all solvents used

Page lof 1

Applicable Rules Advantage Engineering Penny Flickinger 4/8/94

Rule 326 IAC 8-2-9 (d)(2)

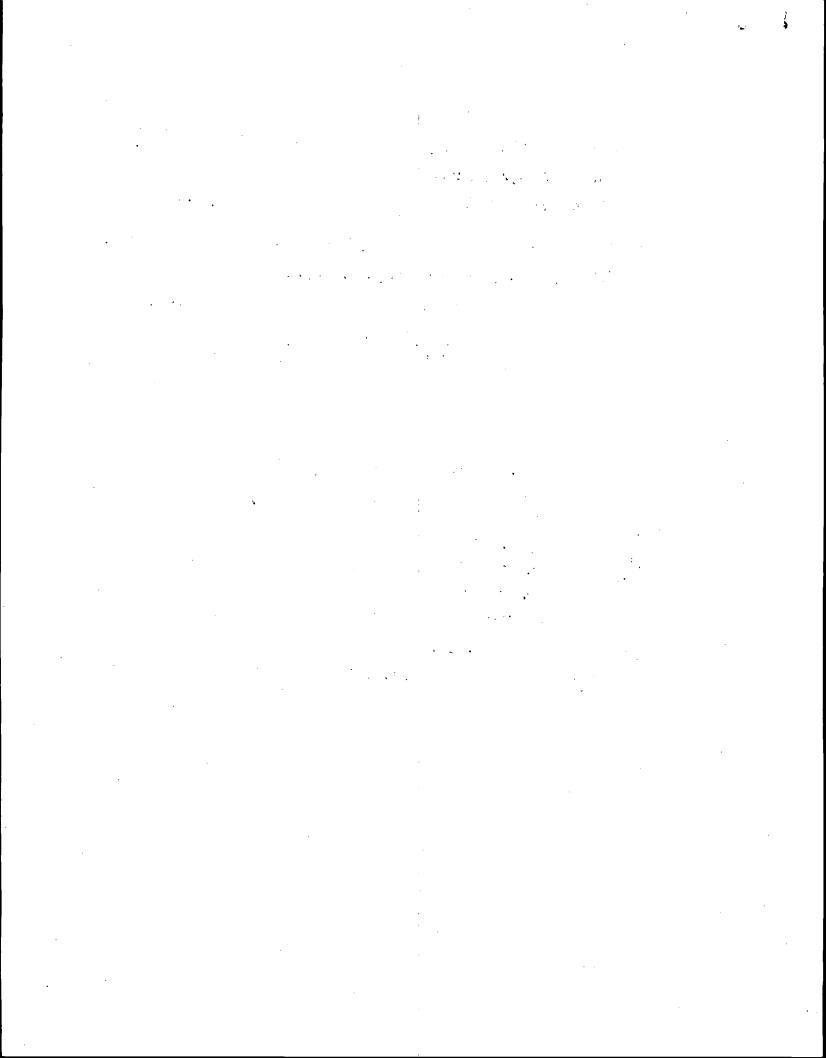
No owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of forty-two hundredths (0.42) kilograms per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety degrees Celsius (90 degrees C) (one hundred ninety-four degrees Fahrenheit (194 degrees F).

Since Advantage Engineering's coating is 2.37 lbs of VOC per gallon of coating less water, they are in compliance with rule 326 IAC 8-2-9.

Plant Point/Segment ID

Use this form to enter new segments or modifications into the AFS system. The BOLD information is necessary for new segment data of existing plant. Use a separate sheet for each segment added. Use RED ink to make modifications in existing segments only. When entering a new plant, all information must be filled in.

Co. # 081 -5420 Plant #681 -60029	CPS Eng PSF
Plant Name Advantage Engineering New Seg	ment/Modify Existing: Circle one: (N) / M
Plant Address 525 E. Stop 18 Rd Plant	City/Zip: Greenwood IN
Contact Person Harry Short Phone # 317/887	-0729 Primary SIC Code: 3559
Mail Address/Zip P.O. Box 407, Greenwood, TN 9	16/42
Point # Segment # Stack #	scc # <u>4-02-002/6</u>
Description of process for point Repairs booths 03- Max Design Rate (MDR) galsh Paint (list units, e.g., T/H) Annual	004
Max Design Rate (MDR) (list units, e.q., T/H) Annual	Process Weight Rate
Ann Fuel Usage Fuel Data: Sulphur (%) A	sh(%) Heat Content
Hours of Operation: Hrs/Day 24 Days/Week	
Control Equipment (description) Dry Filter	
Pollutant Ph Em. Factor Appl Rule Contro	
Pollutant Ome Em. Factor Appl Rula Contro	Eff. % Allow
Pollutant 60 1 Em. Factor 0.0 Who appl Rule Contro	l Eff. % Allow
Pollutant NOX Em. Factor 6.0 PAppl Rule Contro	I Eff. % Allow
Pollutant CO Em. Factor Co Volume Appl Rule Contro	I Eff. % Allow
Pollutant VOC Em. Factor 1.0 163 Appl Rule Control	i Eff. % Allow
Stack Ht.(ft) 15 Stack Dla.(ft) 2.67 Plume Height(ft	
Exit Gas Temp (f) ambient Gas Flow Rate (acfm) 18,200	
Construction Permit # Facility Subject to: PSD NSPS	Subpart: Offsets NESHAP
Are tests required as part of the operating or construction permit?	_
What time limits are given to the company to complete testing?	
Permit limited potential? Y / N What are the limitations?(amount)	
Describe what the limitations are for:	
For NEW plants or processes, fill form out completely.	roleum storage tank data, please see NJL.
Date Entered: Year of Emission Inventory	inspector:



Plant Point/Segment ID

Use this form to enter new segments or modifications into the AFS system. The BOLD information is necessary for new segment data of existing plant. Use a separate sheet for each segment added. Use RED ink to make modifications in existing segments only. When entering a new plant, all information must be filled in.

;o. # <u>081-3920</u>	O Plant # 001-0002	<u> </u>		CPS Eng
	tage Eng.		Segment/Modify	Existing: Circle one: N / M
lant Address			Plant City/Zip:	
Contact Person		Phone #	Prir	mary SIC Code:
/lail Address/Zip				
Point #	Segment #	Stack # _		SCC #
	ogy solly nime			
Max Design Rate (MDI	R) 2355 galls nime	units. e.g., T/H) Anr	nual Process Weig	ght Rate
Ann Fuel Usage	Fuel Data: Sulp	ohur (%)	Ash(%)	Heat Content
dours of Operation:	Hrs/Day <u>24</u>	Days/Week	6	Weeks/Year <u>52</u>
Control Equipment (d	description) Dry file	tr		
Pollutant &m Em.	Factor Appl	Rule Co	ontrol Eff. % <u>9</u> 2	<u> </u>
Pollutant Prays Em.	Factor O,O Appl Appl Factor O,O Appl Appl	Rula Co	ontrol Eff. %	Allow
Pollutant <u>503</u> Em.	Factor O.O Not Appl	Rule Co	ontrol Eff. %	Allow
Pollutant NO3 Em.	Factor O. O Pal Appl	Rule Co	ontrol Eff. %	Allow
Pollutant <u>(10 </u> Em.	Factor O. O 15 gal Appl	Rule Co	ontrol Eff. %	Allow
	Factor 1.0 bya Appl			
	_ Stack Dia.(ft) 2,67			
·	mbient Gas Flow Rate (a			
	Facility St			
Are tests required as part	of the operating or construction	permit?		
What time limits are given	to the company to complete tes	ting?	_ 	
Permit limited potential?	Y / N What are the limitation	ons?(amount)		
Describe what the limitation	ons are for:			· · · · · · · · · · · · · · · · · · ·
For NEW plants or proce	sses, fill form out completely.	For entering	ng petroleum storage t	ank data, please see NJL.
Date Entered:	Year of En	nission Inventory	Ins	pector:

	Service A
•	
:	
	•
• .	
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•	



RECEIVED

FEB 25 1994

State Or include
Department of Environmental Management
Office Of Air Management

addl info CP4 081-3420

February 15, 1994

Indiana Department of Environmental Management 105 S. Meridian Street P.O. Box 6015 Indianapolis, IN 46206-6015

Attention: Penny J. Flickinger

Office of Air Management

Reference: #081-3420

Dear Ms. Flickinger:

This letter is further to my correspondence of December 20, 1993, regarding the above referenced matter.

I have enclosed new data on the coatings to be sprayed. We will be using a waterborn paint and primer with VOC content of less than $3.5 \, \mathrm{lbs/gal}$ to comply with $326 \, \mathrm{lAC} \, 8\text{-}2\text{-}9$ part (d).

Please proceed with our registration application. Thank you for your assistance.

Yours truly

Harry Short

HS/kr

Encl. New Surface Coating Spread Sheet

Applicable MSDS Sheets Flickinger Letter 12/10/93 Short Letter 12/20/93

MATERIAL SAFETY DATA SHEET

CHERICAL

Product:

N5892F BLUE W/R AIR DRY ENAMEL

FAINT

EMERGENCY TELEPHONE NUMBER (219)-236-5856 (24 Hours) (616)-683-3377 (Information) Contact: Mike Lichatowich

(Fage 1 of 6)

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: N5872F BLUE W/R AIR DRY ENAMEL

PRODUCT CLASS: N/A, Fed. # N/A

DATE: 02-10-1994

National Stock Number : Not Applicable

CAGE Code : 02388

Health Flammability 2 Reactivity P.P.E.

SECTION 2 - HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS (ppm)

			ACGIH	ACBIH	DSHA	VAPOR PRESSURE	
INGREDIENT	CAS #	% MI	TLV	STEL	PEL	mm 2 20° C	
ALXYD REBIN	ķ,i.,	16	25 5XIW	75	5()	######################################	######################################
BUTYL CELLOSOLVE	111-76-2	9	25 SXIN	ΝE	25 5KIW	0.6	
RUTYL ALCOHOL	71-36-3	1	50 BRIN	ME	50	4.4	
SECONDARY BUTYL ALCOHOL	78-92-2	1	190	130	150	13	
BLACK FIGNENT	1333-86-4	(1	3.5 mg/m3	NE	3.5mg/m3	0	
COPALT CEMFOUNDS (as Eo)	744(1-48-4	$\langle 1 \rangle$	2mg/m3	ΝE	0.1mg/m3	NE	
Proprietary Ingredients &		Halan	C &				

Manufacturer states unidentified incredients are not considered hazardous under the Federal Hazard Communication Reculations.

SECTION 3 - PHYSICAL DATA

BOILING RANGE: 208 - 398 °F (97 - 203 °C)

EVAPORATION RATE: Signer than either VAPOR DENSITY: Heavier than air AUTOIGNITION TEMPERATURE: NE DECOMPOSITION TEMPERATURE: NE

APPEARANCE AND ODOR: Liquid. Odor of solvents

CORROSION RATE: Minimal

WEIGHT PER GALLON: 10.32 % VOLATILE BY VOLUME: 72.42

V.B.C.: 2.83 Lbs/Gal. VISCOSITY: 50-60s #AF SOLUBILITY IN WATER: Yes SPECIFIC GRAVITY: 1.237

pH: N.A.

NILES

MATERIAL SAFETY DATA SHEET

CHEMICAL

Product:

N-4896 GRAY W/R PRIMER A.D.

PAINT

EMERGENCY TELEPHONE NUMBER (219)-236-5856 (24 Hours) (616)-683-3377 (Information) Contact: Mike Lichatowich

(Page 1 of 6)

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: N-4896 GRAY W/R PRIMER A.D.

PRODUCT CLASS: N/A, Fed. # N/A

DATE: 02-14-1994

National Stock Number : Not Applicable

CAGE Code: 02388

Health Flammability 2 Reactivity P.P.E.

SECTION 2 - HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS (ppm)

			ACGIH	ACGIH	DSHA	VAPOR PRESSURE	
INGREDIENT	CAS #	7 WT	TLV	STEL	PEL	na € 20° C	
ALKYD RESIN SOLUTION	N.A.	14	25ppm	50p	75ppm	6.87	
BARIUM SULFATE	7727-43-7	5	NE	NE	NE	NE	
BUTYL CELLOSOLVE	111-76-2	5	25 SKIN	NE	25 SKIN	0.6	
SECONDARY BUTYL ALCOHOL	78-92-2	2	100	150	150	13	
BUTYL ALCOHOL	71-36-3	1	50 SKIN	NE	50	4.4	
COBALT COMPOUNDS (as Co)	7440-48-4	$\langle 1 \rangle$	2mg/m3	NE	0.1mg/m3	NE	
BLACK PIGMENT	1333-86-4	(1	3.5 mg/m3	NE	3.5mg/m3	0	
Proprietary Ingredients #		Baland	:e		•		

Manufacturer states unidentified ingredients are not considered hazardous under the Federal Hazard Communication Regulations.

SECTION 3 - PHYSICAL DATA

BOILING RANGE: 208 - 398 *F (97 - 203 *C) EVAPORATION RATE: Slower than ether VAPOR DENSITY: Heavier than air AUTOIGNITION TEMPERATURE: NE DECOMPOSITION TEMPERATURE: NE

APPEARANCE AND ODOR: Liquid, Odor of solvents

CORROSION RATE: Minimal

WEIGHT PER GALLON: 10.61 % VOLATILE RY VOLUME: 71.98 V.O.C.: 2.44 Lbs/Gal. VISCOSITY: 75-85s #4F SOLUBILITY IN WATER: Yes SPECIFIC GRAVITY: 1.272

pH: N.A.

7. Witer 449. To organice 107. Volume Part Water 5676 Volume NON VOLATILE 2890

SURFACE COATING AND ACCESSORY SOLVENTS

Company Name Advantage Engineering

	 	,		_	τ	1 10 0 00
				PRIMER	Paint	Material (Coatings, Solvents, Etc.)
				N 4896	N 5892 F	l ldenufication 2 Number
		-		10.61	10.32	3 Material Density Lb/Gal
				10.61 71.98	10.32 72.42	Weight % Volatiles (Water and Organics)
				hh h	47.3	Weight % Water
·				56	55	Volume % Volume % Water Non-volati (Solids)
				28	a5.5	1
				.47	1.98	8 Gallons of Material* Required for One Production Unit Gal / Production Unit
		•		120	2 0 ·	9 Maximum Number of Production Units per Hour
		•		468	1958	Actual** Usage Gal/Yr
				001-004	001-004	Process or Booth I. D.
 <u></u> _			 		<u></u>	L

If different types or sizes of units are coased in the same paint booth with the same coating, this amount should be
 based on the production unit requiring the most gallons per hour. Gallons per hour. = Column 8 x Column 9. If different coatings are used, they must be listed as a separate material.

Attach a Material Safety Data Sheet (MSDS) for each material listed. DO NOT SEND THE ENTIRE MSDS. The required sections are: Section I (Product Identification), Section II (Composition Information), and Section III (Physical Property Information).

Density, Weight % Volatiles, and Weight % Water are determined by methods listed in 326 IAC 8-14

^{••} Complete this column for operation permit renewals only.

EST 1986

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Evan Bayh Governor Kathy Prosser Commissioner

December 10, 1993

105 South Meridian Street P.O. Box 6015 Indianapolis, Indiana 46206-6015 Telephone 317-232-8603 Environmental Helpline 1-800-451-6027

CERTIFIED MAIL P 215 679 311

OFFICE OF AIR MANAGEMENT

Advantage Engineering, Inc. P.O. Box 407 Greenwood, IN 46142

Attention: Harry Short

Re: Permit Application for Construction Permit No. 081-3420

Ladies and Gentlemen:

Your application for four paint booths to be located at 525 East Stop 18 Road, Greenwood, Indiana was received on November 29, 1993. Sufficient data is not contained to act on this application.

According to Air Management's calculations in the Surface Coating Spread Sheet (column 12 and 13), Advantage Engineering Inc. application for a permit will be classified as a registration.

However, pursuant to 326 IAC 8-2-9 part (d), Advantage Engineering Inc., pounds of VOC per gallon of coating less water (column 9), fails to comply with part (d). Please, describe how Advantage Engineering plans to comply with 326 IAC 8-2-9 part (d).

Your written response to this request for additional information must be received within 30 days of your receipt of this letter. If no written response or schedule of when this information will be provided is received within 30 days, your permit may be denied as a result of the incomplete application pursuant to 326 IAC 2-1-3 (f) (1).

Please contact me if you have any questions concerning this letter at the above address or via phone 317/233-6875. Please attach a copy of my letter to your response. Further review on this application can not be done until a response is received. Further questions may arise as the review proceeds.

Sincerely,

Penny J. Flickinger Environmental Scientist Office of Air Management

pif

Enclosure: 326 IAC 8-2-9

Surface Coating Spread Sheet

An Equal Opportunity Employer
Printed on Recycled Paper



December 20, 1993

Indiana Department of Environmental Management 105 S. Meridian Street P.O. Box 6015 Indianapolis, IN 46206-6015

Attention: Penny J. Flickinger

Office of Air Management

Reference: #081-3420

Dear Ms. Flickinger:

Thank you for your letter of December 10, 1993 explaining 326 1AC 8-2-9 part (d). Our consultant was of the understanding that this rule applied to permit application requiring permitting as opposed to registration.

If this rule applies to registration applications then we must work with our suppliers to acquire water base paints or high solids paint for our products. These coatings are typically much more expensive or require ovens or heat application for proper curing.

I will send a follow-up letter once I have additional knowledge on alternative coatings which can be applied in our case.

I respectfully request 60 days from todays date to specify our compliance to 326 1AC 8-2-9 part (d). Your cooperation will be much appreciated.

Yours truly,

Harry Short

HS/sap

Encl. IDEM Letter, 12/10/93

cc: J.W. Bloemer P.E.

JWB Environmental Engineering

10324 Briar Creek Place

Carmel, IN 46033



RECEIVED

APR 4 1994

State Of Indiana
Department of Environmental Management
Office Of Air Management

adoll info 081-3420

March 29, 1994

Indiana Department of Environmental Management 105 S. Meridian Street P.O. Box 6015 Indianapolis, IN 46206-6015

Attention: Penny J. Flickinger

Office of Air Management

Reference: 081-3420

Dear Ms. Flickinger;

Pursuant to our recent telephone conversations, I am submitting specifications for a new waterborn coating to be used in our painting operations.

Please proceed with our registration application. Thank you for your assistance.

Yours truly,

Harry Short

HS/sap

Encl. "Hydro Prime" Product Data Sheet

"Aqua Acrylic" Product Data Sheet

MSDS Sheets

Surface Coating Spread Sheet

Gable Letter 3/22/94

SURFACE COATING AND ACCESSORY SOLVENTS

Company Name Advantage Engineering

 				 	_	Т	(400 7
					PRIMER	Paint	Material (Coatings, Solvents, Etc.)
					HP 261	AA 21	Identification Number
			'		9.7	9.4	Material Denaity Lb / Gal
					18.9	25.2	Weight % Volatiles (Water and Organics)
							Weight % Water
·	·			:) 		Volume % Volume % Water Non-volati
					29	.31	1 2 /
	:	,			. 47	1.98	8 Gallons of Material* Required for One Production Unit Gal / Production Unit
	·		•		, 20	. 80	9 Maximum Number of Production Units per Hour
					894	1958	Actual** Usage Gal/Yr
					001-004	400-100	Process or Booth I. D.

based on the production unit requiring the most gallons per hour. Gallons per hour = Column 8 x Column 9. If different coatings • If different types or sizes of units are coased in the same paint booth with the same coating, this amount should be are used, they must be listed as a separate material.

Section I (Product Identification), Section II (Composition Information), and Section III (Physical Property Information). Attach a Material Safety Data Sheet (MSDS) for each material listed. DO NOT SEND THE ENTIRE MSDS. The required sections are:

Density, Weight % Volatiles, and Weight % Water are determined by methods listed in 326 IAC 8-1-4

^{••} Complete this column for operation permit renewals only.

ja@aL@@¢@<u>a</u>

MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation- 6/01/93 Page 1

Manufacturer: LILLY INDUSTRIES, INC. PERFECTION PAINT DIVISION

Address : 715 East Maryland Street Indianapolis, IN 46202-3999

Emergency Night:

Telephone #: (317) 231-2255 Emergency #: (317) 231-2255 CHEMTREC #: (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: AA21 Product Class: WATER-BORNE ACRYLIC ENAMEL

Trade Name: AQUA-ACRYLIC ALL BASES AND COLORS

HMIS Information:

Health- 2 Flammability- 1
Reactivity- 0 Personal Protective Equipment- B

HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

Eye Protection & Skin Protection

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT			ACGIH	OSHA	LEL
MATERIAL DESCRIPTION REF#	CAS#		TLV(TWA) PPM	PEL PPM	
10 ETHYLENE GLYCOL MC	NO/111-76-2	/	/ 25.00/	25.00/	1.1
BUTYL ETHER	1	1	/ /	/	
14 METHYL ALCOHOL	/67-56-1	/	/ 200.00/	200.00/	6.0
	/	1	/ /	/ 3	TLV-SKIN

This product contains no reported carcinogens or suspected carcinogens. ._____

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding. _____

SECTION III PHYSICAL DATA

Boiling Range: High- 343.0 F Low- 212.0 F

Vapor Pressure: 100.00 MMHG @68 F Vapor Density: Heavier Than Air

Evaporation Rate: Faster than Butyl Acetate

Weight per Gallon: 9.4 VOC. Lbs/Gal: 2.364 Physical State:LIQUID

Odor:SLIGHT pH: 9.0

Freezing Point: 32.0 F

MATERIAL SAFETY DATA

FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation- 1/27/94

Page 1

Manufacturer:

LILLY INDUSTRIES, INC. PERFECTION PAINT DIVISION

Address : 715 East Maryland Street

Indianapolis, IN 46202-3999

Telephone #: (317) 231-2255

Emergency Night:

Emergency #: (317) 231-2255

CHEMTREC #: (800) 424-9300

SECTION I

PRODUCT IDENTIFICATION

Manufacturer's Code Identification: HP261

Product Class: ACRYLIC EMULSION

Trade Name: HYDRO PRIME

HMIS Information:

Health- 2 Flammability- 0
Reactivity- 0 Personal Protective Equipment- 8

HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

Eye Protection & Skin Protection

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION CAS# REF#		ACGIH TLV(TWA) PPM	OSHA PEL PPM	. LEL
11 BUTYL ALCOHOL -N /71-36-3 12 ETHYLENE GLYCOL MONO/111-76-2	/ .	/ 50.00/ / 25.00/	50.00/ 25.00/	1 . 4 1 . 1
BUTYL ETHER /	/	//	./	_
13 AROMATIC PETROLEUM /64742-95-6 DISTILLATE /	/	/NOT EST/ 1	100.00/	. 9
16 PROPYLENE GLYCOL /57-55-6	<u>.</u>	/NOT EST/NO	OT EST/	2.6

This product contains no reported carcinogens or suspected carcinogens.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

> SECTION III PHYSICAL DATA

Boiling Range: High- 343.0 F Low-

Vapor Pressure: 9.00 MMHG @68 F

Vapor Density: Heavier Than Air

Evaporation Rate: Slower than Butyl Acetate

Weight per Gallon: 9.7

VOC Lbs/Gal: 1.832

Physical State:LIQUID

Odor:SLIGHT

pH: 7.5

Freezing Point: 32.0



Lilly Industries, Inc.

March 22, 1994

Mr. Harry Short Advantage Engineering, Inc. 525 E. Stop 18 Road Greenwood, IN 46142

Dear Mr. Short:

This letter is to certify that the amounts of volatile organic compounds shown on Perfection's Product Data Sheets and MSDS, which cover our product called Aqua Acrylic and also Hydro Prime, are calculated using the following method:

ASTM D 2369-81 with EPA modification 24 from 40CFR 60 Appendix A

It is our understanding that this is the method used in 326 IAC 8-2-9 (d), State of Indiana.

If we may be of any further assistance in this matter, please do not hesitate to call immediately.

Sincerely,

Bruce T. Gable

Industrial Coatings Representative

039409bq/pl

State of: INDIANA

ss: MARION

County of: JOHNSON

Subscribed and sworn to before me this day of

1994.

Phyllas E. Lane, Notary Public

My commission expires 4-6-97.



PRODUCT DATA SHEET

AQUA ACRYLIC

DESCRIPTION:

A water-borne, pure acrylic interior/exterior industrial and maintenance coating with excellent water and good chemical resistance. Dries quickly producing an extremely durable film that equals or exceeds most fast dry alkyd base enamels.

USES:

This product may be used on almost any prepared surface of wood, metal or concrete. For use on unusual surfaces, consult your Perfection factory representative.

APPLICATION:

Aqua Acrylic is designed for spray application. (Airless tip size .011 - 013). It may be brushed and rolled if necessary, but is not recommended for large areas.

This product performs extremely well in isolated electrostatic systems.

SURFACE PREPARATION AND LIMITATIONS:

Any surface to which this product is applied must be clean, basically dry and free from contaminants such as grease, oil or dirt. Previously enameled or glossy surfaces must be sanded or thoroughly dulled with a liquid sanding aid. For maximum flow and leveling, apply at surface temperatures between 60° - 80° F. Do not apply if surface temperature is below 50° F.

APPEARANCE:

Gloss (80° reading on 60° gloss meter). Some custom tinted colors will produce a lower gloss. Satin (15° reading on 60° gloss meter). Final gloss may fluctuate depending on how well the surface is sealed.

COVERAGE:

Recommended dry film thickness is 1 to 1.5 mils. This requires a wet film application of approximately 4.5 mils or 350 to 375 sq. ft. per gallon.

DRY TIMES:

Brush and roll application: To touch - 30 minutes. To recoat - 1 hour. To sand - 2 hours. Through dry - 2- 4 hours.

Spray application: To touch - 10 minutes. To handle - 15-30 minutes. To recoat - 10 - 20 minutes. To sand - 1 hour. Through dry - 2- 4 hours. Complete cure - 3 days.

Important: These times are based on surface temperatures between 60° and 80°F at a relative humidity of 45% - 60%. As with all water base products, lower surface temperatures not only slow dry times but impede flow and leveling.

LILLY INDUSTRIES, INC. PERFECTION PAINT DIVISION 715 E. MARYLAND ST. INDIANAPOLIS, INDIANA 46202

AQUA ACRYLIC (Continued)

TECHNICAL DATA:

Solids by weight - $42\% \pm 2$. Solids by volume - $31\% \pm 2$.

Resin solids by weight - 21% (100% acrylic).

Flash Point - Non-combustible.

V.O.C. - 2.45 lbs. per gallon or 294 grams per

liter.

Heat resistant to 250°F.

Pencil hardness after 24 hours is HB. After 3

days, H.

PRIMER RECOMMENDED:

Self-priming over wood and clean, rust-free metal and cast iron. If a water reducible primer is needed, use One Hour Sealer for wood and rust inhibiting Hydro Primer for metal.

COLORS AVAILABLE:

Full range, plus custom matched metallics.

THINNERS & CLEAN-UP:

This product is formulated ready to spray. If thinning is necessary, use only small amounts of tap water. Maximum 4 oz. per gallon. For brush and roll, clean tools with warm, soapy water.

Clean spray equipment with tap water.

CONTAINER SIZES:

5 gallons, 1 gallon.

PERFECTION MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS PRODUCT. Customer only remedy for any defect in this product is recovery of (1) the original cost including freight, plus (2) the unrecoverable value of the product to which the defective coating is applied. As a condition of any recovery, customer must take all reasonable steps to minimize their costs and losses as soon as it is discovered that the product is defective. IN NO EVENT SHALL PERFECTION PAINT DIVISION, LILLY INDUSTRIES, INC., BE LIABLE TO CUSTOMER FOR ANY OTHER CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THIS PRODUCT.



* PRODUCT DATA SHEET

HYDRO PRIME

DESCRIPTION:

A rust inhibitive water-borne acrylic primer for use on interior or exterior surfaces. Hydro Prime can be used on steel, galvanized, aluminum and ceramic surfaces. It provides excellent adhesion to most surfaces and prepares the substrate for the finish coat. Hydro Prime is an excellent intermediate coat between old painted surfaces and new coatings that will normally lift old paint. It can be coated with solvent-based as well as water-borne products.

APPLICATION:

Conventional, airless or isolated electrostatic spray. This product has limited brush and roll characteristics, but is acceptable for touch-up of spray painted parts.

SURFACE PREPARATION AND TEMPERATURE LIMITATIONS: Any surface to which this product is applied must be clean, basically dry and free from contaminants such as oil or dirt.

For maximum flow and leveling apply at surface temperatures between 60°-80°F. Do not apply if surface temperature is below 50°F. Hydro Prime is not recommended for submersion.

APPEARANCE:

Flat. 5°-10° reading on 60° gloss meter.

COVERAGE:

Recommended dry film thickness is 1 to 1.5 mils. This requires a wet film application of approximately 4 mils or 400 sq. ft. per gallon.

DRY TIMES:

Spray application:
To touch - 15 minutes.
To handle - 30 minutes.
To sand or top coat - 1 hour.
Important: These times are based on surface temperatures between 60° and 80°F at a relative humidity of between 45% and 60%. Initial dry times will fluctuate with temperature and humidity changes.

HYDRO PRIME (Continued)

TECHNICAL DATA:

Solids by weight - $41\% \pm 2$.

Solids by volume - 29% ± 2.

Resins solids by weight - 20% (100%

acrylic).

Flash Point - None.

VOC - 1.9 lbs. per gallon.

Viscosity - 35 seconds, Zahn #3. Weight per gallon - 9.70 ± 2%. Pencil hardness at full cure - H.

PERFORMANCE TESTS:

Conducted on fully cured Hydro Prime

film:

ASTM D3359 - Cross-hatch adhesion.

Pass.

ASTM D522 - Flexibility, 1/4" mandrel

bend. Pass.

COLORS AVAILABLE:

Light gray.

THINNERS & CLEAN-UP:

This product is formulated and ready to

spray. If thinning is necessary use up to 4 oz. per gallon of tap water. Clean spray equipment thoroughly and

immediately after use with tap water. A film which has been allowed to dry even a short time may require use of solvent.

CONTAINER SIZES:

5 gallon, 1 gallon.

PERFECTION MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS PRODUCT. Customer's only remedy for any defect in this product is recovery of (1) the original cost including freight, plus (2) the unrecoverable value of the product to which the defective coating is applied. As a condition of any recovery, customer must take all reasonable steps to minimize their costs and losses as soon as it is discovered that the product is defective. IN NO EVENT SHALL PERFECTION PAINT DIVISION, LILLY INDUSTRIES, INC. BE LIABLE TO CUSTOMER FOR ANY OTHER CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THIS PRODUCT.



Lilly Industries, Inc.

March 22, 1994

Mr. Harry Short Advantage Engineering, Inc. 525 E. Stop 18 Road Greenwood, IN 46142

Dear Mr. Short:

03/24/94

This letter is to certify that the amounts of volatile organic compounds shown on Perfection's Product Data Sheets and MSDS, which cover our product called Aqua Acrylic and also Hydro Prime, are calculated using the following method:

ASTM D 2369-81 with EPA modification 24 from 40CFR 60 Appendix A

It is our understanding that this is the method used in 326 IAC 8-2-9 (d), State of Indiana.

If we may be of any further assistance in this matter, please do not hesitate to call immediately.

Sincerely,

Bruce T. Gable

Industrial Coatings Representative

039409bg/pl

State of: INDIANA

ss: MARION

County of: JOHNSON

Subscribed and sworn to before me this Anday of Warch

Phyllas E. Lane, Notary Public

My commission expires 4-6-97.







MESSAGE AND COVER PAGE

Date 3/24/44 Time #	Pages (including this page)
Date Orași Time Time	rages (including this page)
PLEASE DELIVER TO:	FROM:
PENNY FLICKINGER	HARRY SHORT
106M - A.R MANAGEMENT	525 E. STOP 18 RD. BOX 407
233 - 5967	GREENWOOD, IN 46142PHONE 317 887-0729 FAX 317 881-1277
	For your information
•	MESSAGE
CALCULATION VERIFICAT	TION FOR VOC CUMPLIANCE
PLEASE LET ME KNOW	what ELSE WE NEED
	J Laners
	J hans

04/08/94 10:49 \$317 881 1277 ADVANTAGE ENG APR 08 '94 10:05AM 10th OLDER 15 FESCAS

whom you have reason to believe have a submatter, or could otherwise be considered to Failure to notify a person who is later de result in voiding our decision on procedur with the Administrative Adjudication Act of	to be potentially affected under the live.
with the Administrative Adjudication Act a please list all such parties. Use addition	nd to svoid reversal of a decision,
NAME	NAME
STREET	STREET
CITY, STATE, ZIP	CITY, STATE, 219
NAME	NAME
STREET	STREET
CITY, STATE, 21P	CITY, STATE, 219
NAME	NAME
STREET	STREET
CITY, STATE, ZIP	CITY, STATE, ZIP
CHECK APPROPRIATE BOX	ADDRESS OF SITE:
Construction Permit	Street
Operation Pesmit	City
C Variance	
Other	
Please complete this form by signing	the following statement:
parties, as defined by IC 4-21.9, known to	pledge I have listed all potentially affected one. If none are listed it signifies that
no such parties are known.	SIGNATURE Planes of how
	PRINTED NAME HARRY R. S. HORT
	COUNTAGE ENGINEERING
	DATE 4/8/94

Please read the attached letter from the Commissioner, and list here any persons



Lilly Industries, Inc.

March 22, 1994

Mr. Harry Short Advantage Engineering, Inc. 525 E. Stop 18 Road Greenwood, IN 46142

Dear Mr. Short:

This letter is to certify that the amounts of volatile organic compounds shown on Perfection's Product Data Sheets and MSDS, which cover our product called Aqua Acrylic and also Hydro Prime, are calculated using the following method:

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If we may be of any further assistance in this matter, please do not hesitate to call immediately.

Sincerely,

Bruce T. Gable

Industrial Coatings Representative

039409bq/pl

State of: INDIANA

ss: MARION

County of: JOHNSON

Subscribed and sworn to before me this day of , 1994.

A. Kullin G. Na

Phyllas E. Lane, Notary Public

My commission expires 4-6-97



PRODUCT DATA SHEET

AQUA ACRYLIC

DESCRIPTION:

A water-borne, pure acrylic interior/exterior industrial and maintenance coating with excellent water and good chemical resistance. Dries quickly producing an extremely durable film that equals or exceeds most fast dry alkyd base enamels.

USES:

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APPLICATION:

Aqua Acrylic is designed for spray application. (Airless tip size .011 - 013). It may be brushed and rolled if necessary, but is not recommended for large areas.

This product performs extremely well in isolated electrostatic systems.

SURFACE PREPARATION AND LIMITATIONS:

Any surface to which this product is applied must be clean, basically dry and free from contaminants such as grease, oil or dirt. Previously enameled or glossy surfaces must be sanded or thoroughly dulled with a liquid sanding aid. For maximum flow and leveling, apply at surface temperatures between 60° - 80° F. Do not apply if surface temperature is below 50° F.

APPEARANCE:

Gloss (80° reading on 60° gloss meter). Some custom tinted colors will produce a lower gloss. Satin (15° reading on 60° gloss meter). Final gloss may fluctuate depending on how well the surface is sealed.

COVERAGE:

Recommended dry film thickness is 1 to 1.5 mils. This requires a wet film application of approximately 4.5 mils or 350 to 375 sq. ft. per gallon.

DRY TIMES:

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Important: These times are based on surface temperatures between 60° and 80°F at a relative humidity of 45% - 60%. As with all water base products, lower surface temperatures not only slow dry times but impede flow and leveling.

LILLY INDUSTRIES, INC. PERFECTION PAINT DIVISION 715 E. MARYLAND ST. INDIANAPOLIS, INDIANA 46202

AQUA ACRYLIC (Continued)

TECHNICAL DATA:

Solids by weight - $42\% \pm 2$. Solids by volume - $31\% \pm 2$.

Resin solids by weight - 21% (100% acrylic).

Flash Point - Non-combustible.

V.O.C. - 2.45 lbs. per gallon or 294 grams per

liter.

Heat resistant to 250°F.

Pencil hardness after 24 hours is HB. After 3

days, H.

PRIMER RECOMMENDED:

Self-priming over wood and clean, rust-free metal and cast iron. If a water reducible primer is needed, use One Hour Sealer for wood and rust inhibiting Hydro Primer for metal.

COLORS AVAILABLE:

Full range, plus custom matched metallics.

THINNERS & CLEAN-UP:

This product is formulated ready to spray. If thinning is necessary, use only small amounts of tap water. Maximum 4 oz. per gallon. For brush and roll, clean tools with warm, soapy water.

Clean spray equipment with tap water.

CONTAINER SIZES:

5 gallons, 1 gallon.

PERFECTION MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS PRODUCT. Customer only remedy for any defect in this product is recovery of (1) the original cost including freight, plus (2) the unrecoverable value of the product to which the defective coating is applied. As a condition of any recovery, customer must take all reasonable steps to minimize their costs and losses as soon as it is discovered that the product is defective. IN NO EVENT SHALL PERFECTION PAINT DIVISION, LILLY INDUSTRIES, INC., BE LIABLE TO CUSTOMER FOR ANY OTHER CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THIS PRODUCT.



PRODUCT DATA SHEET

HYDRO PRIME

DESCRIPTION:

A rust inhibitive water-borne acrylic primer for use on interior or exterior surfaces. Hydro Prime can be used on steel, galvanized, aluminum and ceramic surfaces. It provides excellent adhesion to most surfaces and prepares the substrate for the finish coat. Hydro Prime is an excellent intermediate coat between old painted surfaces and new coatings that will normally lift old paint. It can be coated with solvent-based as well as water-borne products.

APPLICATION:

Conventional, airless or isolated electrostatic spray. This product has limited brush and roll characteristics, but is acceptable for touch-up of spray painted parts.

SURFACE PREPARATION AND TEMPERATURE LIMITATIONS: Any surface to which this product is applied must be clean, basically dry and free from contaminants such as oil or dirt.

For maximum flow and leveling apply at surface temperatures between 60°-80°F. Do not apply if surface temperature is below 50°F. Hydro Prime is not recommended for submersion.

APPEARANCE:

Flat. $5^{\circ}-10^{\circ}$ reading on 60° gloss meter.

COVERAGE:

Recommended dry film thickness is 1 to 1.5 mils. This requires a wet film application of approximately 4 mils or 400 sq. ft. per gallon.

DRY TIMES:

Spray application:
To touch - 15 minutes.
To handle - 30 minutes.
To sand or top coat - 1 hour.
Important: These times are based on surface temperatures between 60° and 80°F at a relative humidity of between 45% and 60%. Initial dry times will fluctuate with temperature and humidity changes.

HYDRO PRIME (Continued)

TECHNICAL DATA:

Solids by weight - 41% \pm 2. Solids by volume - 29% \pm 2.

Resins solids by weight - 20% (100%

acrylic).

Flash Point - None.

VOC - 1.9 lbs. per gallon.

Viscosity - 35 seconds, Zahn #3. Weight per gallon - 9.70 ± 2%. Pencil hardness at full cure - H.

PERFORMANCE TESTS:

Conducted on fully cured Hydro Prime

film:

ASTM D3359 - Cross-hatch adhesion.

Pass.

ASTM D522 - Flexibility, 1/4" mandrel

bend. Pass.

COLORS AVAILABLE:

Light gray.

THINNERS & CLEAN-UP:

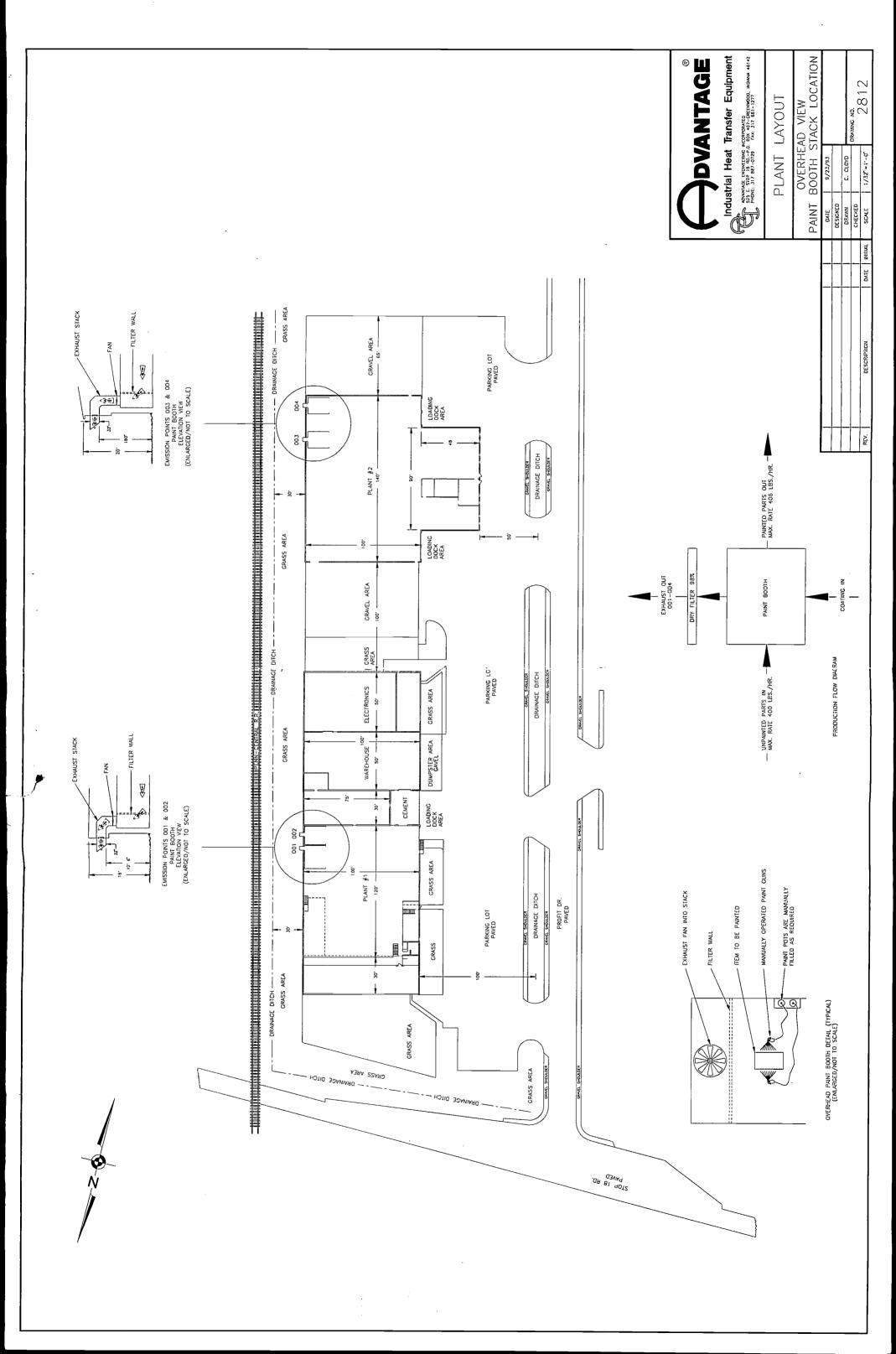
This product is formulated and ready to

spray. If thinning is necessary use up to 4 oz. per gallon of tap water. Clean spray equipment thoroughly and immediately after use with tap water. A film which has been allowed to dry even a short time may require use of solvent.

CONTAINER SIZES:

5 gallon, 1 gallon.

PERFECTION MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS PRODUCT. Customer's only remedy for any defect in this product is recovery of (1) the original cost including freight, plus (2) the unrecoverable value of the product to which the defective coating is applied. As a condition of any recovery, customer must take all reasonable steps to minimize their costs and losses as soon as it is discovered that the product is defective. IN NO EVENT SHALL PERFECTION PAINT DIVISION, LILLY INDUSTRIES, INC. BE LIABLE TO CUSTOMER FOR ANY OTHER CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THIS PRODUCT.



• ,

Air Toxic Pollutants

	<u>cas</u>	CHEMICAL	EMISSION	MAXIMUM EMISSION
X	<u>NUMBER</u>	NAME	POINTS	RATE (POUNDS/HR)
· ·	00088062	2,4,6-Trichlorophenol		
	00121448	Triethylamine		
	01582098	Trifluralin		
	00540841	2,2,4-Trimethylpentane		
	00108054	Vinyl acetate		
	00593602	Vinyl bromide		
	00075014	Vinyl Chloride		
	00075354	Vinylidene chloride		
		(1,1-Dichloroethylene)		
XX	01330207	Xylenes (isomers and mixture)	Booth @	12.5
XX	00095476	o-Xylenes		
_	00108383	m-Xylenes		
	00106423	p-Xylenes		
		Antimony Compounds		
_		Arsenic Compounds		
		(inorganic including arsine)		
		Beryllium Compounds		
		Cadmium Compounds		
_		Chromium Compounds		
		Cobalt Compounds		
_		Coke Oven Emissions		
		Cyanide Compounds1		-
XX		Glycol ethers ²	Booth	2.0
		Lead Compounds		
—		Manganese Compounds		
—		Mercury Compounds		·
		Mineral Fibers ³		
—		Nickel Compounds		
		Polycyclic Organic Matter ⁴		
		Radionuclides (Including Radon) ⁵		
		Selenium Compounds	•	
				erouge y4 will be
		EMITTED FROM THE EQUIPMENT LIS	STED IN THIS	APPLICATION.

NOTE: FOR ALL LISTINGS ABOVE WHICH CONTAIN THE WORD "COMPOUND" AND FOR GLYCOL ETHERS THESE LISTINGS ARE DEFINED AS INCLUDING ANY UNIQUE CHEMICAL SUBSTANCE THAT CONTAINS THE NAMED CHEMICAL AS PART OF THAT CHEMICAL'S INFRASTRUCTURE.

- 1 X'CN where X=H' or any other group where a formal dissociation may occur. For example KCN or $Ca(CN)_2$
- includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH2CH2)n-OR* where: n= 1, 2, or 3; R= alkyl or aryl groups; and R'= R, H, or groups which, when removed, yield glycol ethers with the structure R-(OCH2CH2)n-OH. Polymers are excluded from the glycol category.
- includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
- 4 includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 degrees Celsius.
- a type of atom which spontaneously undergoes radioactive decay.

DO NOT SEND ENTIRE MATERIAL SAFETY DATA SHEETS (MSDS). The required sections are: Section I (Product Identification), Section II (Composition Information), and Section III (Physical Property Information).