

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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DEPT OF ENV PROTECTION
WEST PALM BEACHBureau of
Air RegulationAPPLICATION FOR PERMIT OF PROPOSED RACT FOR
AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Paint Spray Booths Renewal of DER Permit No. A013-221985

Company Name: Nailite International County: Dade

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): Three (3) paint booths used to coat plastic siding by a continuous conveyor system.

Source Location: Street: 1251 NW 165th Street City: Miami

UTM: East Zone 17; 578.2 km North 2,867.3 km

Latitude: 2 5° 5 5' 2 5"N Longitude: 8 0° 1 3' 0 9"W

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
Not applicable.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
Paint spray heaters have been intalled. See attachment.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
Not applicable.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
Not applicable.
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

| Description | Type | Contaminant | %Wt | Rate | Utilization lbs/hr |
|----------------|------------|-------------|-------------|----------------------|-----------------------|
| <i>Solvent</i> | <i>VOC</i> | | <i>100%</i> | <i>75,000 gal/hr</i> | |

^a Based on proposed use of higher solids coating.

B. Product Weight (lbs/hr): 10,000,000 ft² coated (based on 1993 actual production)

C. Fuels

| Type (Be Specific) | Avg/hr* | Consumption* Max/hr** | Maximum Heat Input (MMBTU/hr) |
|-----------------------|---------|--------------------------|----------------------------------|
| <i>None</i> | | | |
| | | | |
| | | | |
| | | | |

D. Normal Equipment Operating Time: hrs/day 14; days/wk 6; wks/yr 52;
hrs/yr (power plants only) ; if seasonal, describe

The undersigned owner or authorized representative*** of Nailite International is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

* During actual time of operation.
** Units: Natural Gas-MMCF/hr;
Fuel Oils-barrels/hr; Coal-lbs/hr.
*** Attach letter of authorization if not previously submitted

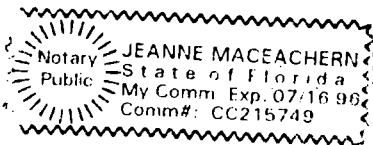
Ronald J. Gross
Signature, Owner or Authorized Representative
(Notarization is mandatory)

Ronald J. Gross, Vice President - Operations
Typed Name and Title

1251 NW 165th Street
Address

Miami Florida 33169
City State Zip

12-30-94 (305) 620-6200
Date Telephone No.



Jeanne Maceachern

PROFESSIONAL ENGINEER CERTIFICATION

This certification must be attached to the RACT application (required by Rule 17-4.050(3), FAC) for :

Company Name: *Nailite International*

Source ID: *50DAD130407*

County: *Dade*

Renewal of DER Permit No.: *AO13-221985*

PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (WHERE REQUIRED BY Chapter 471, F.S.)

This is to certify that the engineering features of this pollution source(s) have been examined by me and found to be in conformity with good engineering principles which provide reasonable assurance, in my professional judgment, that the pollution source(s), when properly maintained and operated, will discharge an effluent that complies with all applicable Statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution source(s).

Signed

David A. Buff

David A. Buff

Name (Please Type)

Affix Seal

KBN Engineering and Applied Sciences, Inc.

Company Name (Please Type)

6241 NW 23rd Street, Gainesville, FL 32653-1500

Mailing Address (Please Type)

Florida Registration No. *19011*

Date *12/29/94*

Telephone No. *(904) 336-5600*

1.0 INTRODUCTION

~~Nailite International is a manufacturing facility located in Miami, Dade County, Florida. The~~
facility operations consist of the manufacture and coating of polypropylene siding used in architectural and construction applications. The plastic siding is manufactured, coated, and packaged at the facility for shipping offsite. The coating operations consist of spray painting the plastic siding in three continuous conveyor coating booths and drying the product in an electric-fired curing oven. The coatings used are solvent-based color coatings.


The facility is considered to be a major source of air emissions because potential volatile organic compound (VOC) emissions exceed 100 tons per year (TPY). Because the source is a major source and located in Dade County, the facility is subject to the reasonably available control technology (RACT) provisions of 62-296.570, Florida Administrative Code (F.A.C.), for major VOC- and NO_x-emitting facilities. The provisions of this rule require that each major facility located in Dade, Broward, or Palm Beach County submit an application for a revised operating permit by March 31, 1993, unless granted a written extension by the Florida Department of Environmental Protection (FDEP). Nailite has requested and received an extension for submitting its application. The rule also establishes NO_x and VOC emission limits for various source types. However, none of the source categories contained in the rule apply to facilities such as Nailite. As such, Nailite is required by the Department to submit a RACT application and proposed emission limits for its facility by December 31, 1994.

The information herein presents proposed VOC emission limits for the facility. These limits are based on proposed modifications to the coating operations at the facility. These modifications will be fully implemented by the RACT implementation date of May 31, 1995.

2.0 DESCRIPTION OF EXISTING OPERATIONS

Nailite's operations consist of the manufacture and coating of plastic siding material. There are no VOC emissions associated with the manufacture of the siding material. However, the coating operation consists of a continuous conveyor system which moves the siding through three paint spray booths and a drying oven. The spray booths are equipped with several fans with fiberglass filters which are used to exhaust air from the paint booths to the outside of the building.

The as-purchased paint currently used by Nailite is solvent-based, typically consisting of toluene, xylene, or acetone. The VOC content of the paint ranges from approximately 58 to 66 percent, by weight, with an average VOC content of approximately 62 percent. Additional solvents are added to the purchased paint to enhance delivery and application of the coating to the siding material. Additional solvent is also used to clean the paint spray lines prior to a change in color application. The spent solvent is recovered in a batch still located at the facility. Paint sludge from the still is transferred offsite to an authorized waste handler. The primary solvents added to the paint are toluene and acetone.

~~Actual VOC emissions for 1992 and 1993 were 239 and 301 TPY, respectively.~~ These emissions assume 100 percent flash-off of the solvent contained in the as-applied coating (includes solvent in the as-purchased paint and added solvent). 

3.0 PROPOSED OPERATIONAL CHANGES

~~In an effort to reduce overall VOC emissions from the facility, Nailite will be implementing the~~
following modifications to the paint line by May 31, 1995:

1. Use of a higher solids (i.e., lower solvent) coatings for use in the paint spray booths.
2. Installation of three (3) Kremlin type ADO paint heaters for the coating operation.

The higher solids coatings consist of solvent-based coatings with VOC contents ranging approximately from 44 to 62 percent, by weight, with an average VOC content of 50 percent. The VOC content of the high-solids coatings is approximately 20 percent less than the coatings currently used at the facility. Therefore, VOC emissions from the coating lines will be reduced through the use of the new coating formulation. In addition, use of the higher solids coatings is expected to reduce overall paint usage at the facility because a gallon of high solids coating will cover more product area than the existing coating. Therefore, overall VOC emissions on an annual basis are expected to be 25 to 35 percent lower than with the existing coatings.

Implementation of the paint heaters is also expected to reduce VOC emissions by reducing the amount of diluent solvent required for the coating application. The expected reduction in VOC is unknown pending further testing by Nailite. However, a decrease of at least 25 percent in solvent use is typical. Due to this uncertainty, Nailite's proposed RACT emission limits assume that diluent solvent quantities will be similar to amounts currently used with the higher solvent paint.

The MSDS for the higher solids coatings representing the five most commonly used coatings at the facility are included in Appendix A. These coatings are solvent-based and contain no water.

4.0 PROPOSED EMISSION LIMITS

Nailite's proposed emission limits are based on use of the higher solids coatings and typical paint/solvent mixing ratios. The mixing ratios typically used are as follows:

| Product Type | Percent of Overall Production | Paint/Solvent Mixture Ratio | Diluent Solvent Used |
|-----------------|-------------------------------|-----------------------------|----------------------|
| Shake | 50 | 65/35 | Acetone |
| Brick and Stone | 40 | 55/45 | Toluene, Acetone |
| Perfection | 10 | 65/35 | Acetone |

Potential emissions based on higher solids coating and these typical mixing ratios are included in Table 1. These emissions are based on one gallon of as-applied coating. Therefore, the emissions represent pounds of VOC emitted per gallon of as-applied coating.

Depending on the product type coated, projected VOC emissions range from 5.49 pounds VOC per gallon (lb VOC/gal) applied coating to 5.82 lb VOC/gal applied coating. Actual VOC emissions are expected to be lower based on the hot-spray application. The estimated emissions are based on an average paint density and VOC content for the five most commonly used coatings. Based on the production percentage amounts for each product type, average VOC emissions are approximately 5.6 lb VOC/gal coating.

Based on the calculated VOC emissions presented in Table 1, Nailite proposes a VOC emission limit of 6.0 lb VOC/gal applied coating, minus water (note: no water is contained in the as-purchased paint). By comparison, annual average VOC emissions for 1992 and 1993 were approximately 6.3 lb VOC/gal coating. Based on estimated annual average emissions of 5.6 lb VOC/gal coating, the use of higher solids paint alone is expected to reduce VOC emissions by approximately 11 percent. The utilization of the hot spray application will further reduce VOC emissions although the magnitude of the anticipated reduction is not known at this time. Overall VOC emissions are also expected to be reduced based on decreased paint usage at the facility.

It is also noted that the U.S. Environmental Protection Agency (EPA) has proposed to include acetone on the list of compounds excluded from the definition of VOC. If this revision is finalized, VOC emissions will be significantly reduced since acetone is one of the primary solvents used at the facility.

Table 1. Estimated VOC Emissions for Nailite International

| Product Type | As-Applied Coating Constituents(a) | | Diluent Solvent Type | Average Paint Density (lb/gal) | Solvent Density (lb/gal) | Average Paint VOC (Wt %) | Potential VOC Emitted | | Total Potential VOC Emission (lb/gal coating) |
|-----------------|------------------------------------|---------------|------------------------------------|--------------------------------|--------------------------|--------------------------|-----------------------|----------------------|---|
| | Paint (gal) | Solvent (gal) | | | | | Paint (lb) | Diluent Solvent (lb) | |
| Shake | 0.65 | 0.35 | Acetone | 9.76 | 6.61 | 50 | 3.17 | 2.31 | 5.49 |
| Brick and Stone | 0.55 | 0.45 | Toluene (55.5%) Acetone (44.5%) | 9.76 | 7.26 6.61 | 50 | 2.68 | 1.81 1.32 | 5.82 |
| Perfection | 0.65 | 0.35 | Acetone | 9.76 | 6.61 | 50 | 3.17 | 2.31 | 5.49 |

(a) Coating constituents based on 1 gal of as-applied coating.

APPENDIX A

No water content
in any of these
Coatings
per Strathmore
12-28-94

Date of Prep | 12/02/94 | For Customer: 04810 NAILITE INTERNATIONAL
1251 N. W. 165TH STREET
MIAMI, FL 33169

SECTION I

Manufacturer's Name: STRATHMORE PRODUCTS INC
Address: 1970 WEST FAYETTE STREET
City, State and Zip Code: SYRACUSE, NEW YORK 13201

Emergency Telephone Nos. Day: 315/488-5401
Night: For Health - Poison Control Center 315/476-4766
For Spills - Chem-Tel 1-800/255-3924

Manufacturers Code Identification: W35-0082 Rev. 11/09/94
Product Class: ACRYLIC COATING
Trade Name: PLASTICEL ALPINE WHITE COATING "C" VERSION

SECTION II - HAZARDOUS INGREDIENTS

| Ingredient Material Description | CAS Number | % By Weight | TLV ACGIH | PEL OSHA | Units | LEL % | VP MM HG | Comment |
|---|---------------|----------------|--------------|-------------|-------|----------|-------------|---------|
| # TOLUENE | 108-88-3 | 44.04 | 100.0000 | 100.0000 | PPM | 1.20 | 38.00 | |
| *See MSDS Section X AMORPHOUS SILICA | 61790-53-2 | | 10.0000 | 6.0000 | MG/M3 | N.EST | N.EST | |
| TITANIUM DIOXIDE | 13463-67-7 | | 10.0000 | 15.0000 | MG/M3 | N.EST | N.EST | |
| #SARA Sec.313 Supplier Notif. See MSDS Section X | | | | | | | | |

SECTION III - PHYSICAL DATA

Boiling Range: 230 - 232 DEG F | Weight per Gallon: 10.49
Vapor Density: Heavier than Air | % Volatile by Volume: 63.98
Evaporation Rate: Slower than Ether

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT Category: RED LABEL, FLAMMABLE LESS THAN 100 DEG F
Flash Point: 46 DEG F SETA Flash | LEL: See SECTION II

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED.
ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED
CONTAINERS MAY EXPLODE OR RUPTURE WHEN EXPOSED TO EXTREME HEAT. DO NOT
APPLY TO HOT SURFACES. AVOID BREATHING GASES, VAPORS, FUMES OR
DECOMPOSITION PRODUCTS DURING A FIRE. OVEREXPOSURE TO DECOMPOSITION
PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY
APPARENT. OBTAIN MEDICAL ATTENTION.

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M A T E R I A L S A F E T Y D A T A S H E E T

FOR COATINGS, RESINS AND RELATED MATERIALS

| | |
|--------------------------|---|
| Date of Prep 12/02/94 | For Customer: 04810 NAILITE INTERNATIONAL 1251 N. W. 165TH STREET MIAMI, FL 33169 |
|--------------------------|---|

SECTION I

Manufacturer's Name: STRATHMORE PRODUCTS INC
Address: 1970 WEST FAYETTE STREET
City, State and Zip Code: SYRACUSE, NEW YORK 13201

Emergency Telephone Nos. Day: 315/488-5401
Night: For Health - Poison Control Center 315/476-4766
For Spills - Chem-Tel 1-800/255-3924

Manufacturers Code Identification: I35-0095 Rev. 11/10/94
Product Class: ACRYLIC COATING
Trade Name: PLASTICEL LIGHT BUFF COATING "C" VERSION

SECTION II - HAZARDOUS INGREDIENTS

| Ingredient Material Description | CAS Number | % By Weight | TLV ACGIH | PEL OSHA | Units | LEL % | VP MM HG | Comment |
|---|---------------|----------------|--------------|-------------|-------|----------|-------------|---------|
| # TOLUENE | 108-88-3 | 48.46 | 100.0000 | 100.0000 | PPM | 1.20 | 38.00 | |
| *See MSDS Section X | | | | | | | | |
| AMORPHOUS SILICA | 61790-53-2 | | 10.0000 | 6.0000 | MG/M3 | N.EST | N.EST | |
| TITANIUM DIOXIDE | 13463-67-7 | | 10.0000 | 15.0000 | MG/M3 | N.EST | N.EST | |
| IRON OXIDE | 51274-00-1 | | 10.0000 | 10.0000 | MG/M3 | N.EST | N.EST | |
| #SARA Sec.313 Supplier Notif. See MSDS Section X | | | | | | | | |

SECTION III - PHYSICAL DATA

| | |
|-------------------------------------|-----------------------------|
| Boiling Range: 230 - 232 DEG F | Weight per Gallon: 10.11 |
| Vapor Density: Heavier than Air | % Volatile by Volume: 67.78 |
| Evaporation Rate: Slower than Ether | |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT Category: RED LABEL, FLAMMABLE LESS THAN 100 DEG F
Flash Point: 46 DEG F SETA Flash | LEL: See SECTION II

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE OR RUPTURE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY TO HOT SURFACES. AVOID BREATHING GASES, VAPORS, FUMES OR DECOMPOSITION PRODUCTS DURING A FIRE. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

 For Customer: 04810 NAILITE INTERNATIONAL
 Date of Prep | 12/02/94 | 1251 N. W. 165TH STREET
 | | MIAMI, FL 33169

SECTION I

Manufacturer's Name: STRATHMORE PRODUCTS INC
 Address: 1970 WEST FAYETTE STREET
 City, State and Zip Code: SYRACUSE, NEW YORK 13201

Emergency Telephone Nos. Day: 315/488-5401
 Night: For Health - Poison Control Center 315/476-4766
 For Spills - Chem-Tel 1-800/255-3924

Manufacturers Code Identification: E35-0105 Rev. 9/21/94
 Product Class: ACRYLIC COATING
 Trade Name: PLASTICEL MORTARLINE GRAY COATING - "C" VERSION

SECTION II - HAZARDOUS INGREDIENTS

| Ingredient Material Description | CAS Number | % By Weight | TLV ACGIH | PEL OSHA | Units | LEL % | VP MM HG | Comment |
|---|---------------|----------------|--------------|-------------|-------|----------|-------------|---------|
| # TOLUENE | 108-88-3 | 48.78 | 100.0000 | 100.0000 | PPM | 1.20 | 38.00 | |
| *See MSDS Section X | | | | | | | | |
| AMORPHOUS SILICA | 61790-53-2 | | 10.0000 | 6.0000 | MG/M3 | N.EST | N.EST | |
| TITANIUM DIOXIDE | 13463-67-7 | | 10.0000 | 15.0000 | MG/M3 | N.EST | N.EST | |
| IRON OXIDE | 51274-00-1 | | 10.0000 | 10.0000 | MG/M3 | N.EST | N.EST | |
| #SARA Sec.313 Supplier Notif. See MSDS Section X | | | | | | | | |

SECTION III - PHYSICAL DATA

Boiling Range: 230 - 232 DEG F | Weight per Gallon: 9.86
 Vapor Density: Heavier than Air | % Volatile by Volume: 66.52
 Evaporation Rate: Slower than Ether

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT Category: RED LABEL, FLAMMABLE LESS THAN 100 DEG F
 Flash Point: 46 DEG F SETA Flash | LEL: See SECTION II

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED.
 ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED
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M A T E R I A L S A F E T Y D A T A S H E E T

FOR COATINGS, RESINS AND RELATED MATERIALS

----- For Customer: 04810 NAILITE INTERNATIONAL
 Date of Prep | 12/02/94 | 1251 N. W. 165TH STREET
 | | MIAMI, FL 33169

SECTION I

Manufacturer's Name: STRATHMORE PRODUCTS INC
 Address: 1970 WEST FAYETTE STREET
 City, State and Zip Code: SYRACUSE, NEW YORK 13201

Emergency Telephone Nos. Day: 315/488-5401
 Night: For Health - Poison Control Center 315/476-4766
 For Spills - Chem-Tel 1-800/255-3924

Manufacturers Code Identification: I35-0095 Rev. 11/09/94
 Product Class: ACRYLIC COATING
 Trade Name: PLASTICEL MASONRY WHITE POLYPRO CTG. - "C" VERSION

SECTION II - HAZARDOUS INGREDIENTS

| Ingredient Material Description | CAS Number | % By Weight | TLV ACGIH | PEL OSHA | Units | LEL % | VP MM HG | Comment |
|---|---------------|----------------|--------------|-------------|-------|----------|-------------|---------|
| # TOLUENE | 108-88-3 | 47.09 | 100.0000 | 100.0000 | PPM | 1.20 | 38.00 | |
| *See MSDS Section X | | | | | | | | |
| AMORPHOUS SILICA | 61790-53-2 | | 10.0000 | 5.0000 | MG/M3 | N.EST | N.EST | |
| TITANIUM DIOXIDE | 13463-67-7 | | 10.0000 | 15.0000 | MG/M3 | N.EST | N.EST | |
| #SARA Sec.313 Supplier Notif. See MSDS Section X | | | | | | | | |

SECTION III - PHYSICAL DATA

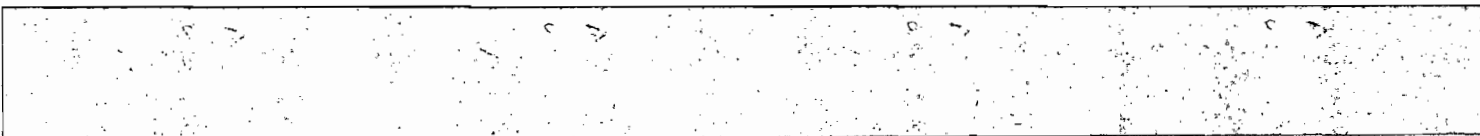
Boiling Range: 230 - 232 DEG F | Weight per Gallon: 10.11
 Vapor Density: Heavier than Air | % Volatile by Volume: 65.92
 Evaporation Rate: Slower than Ether

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT Category: RED LABEL, FLAMMABLE LESS THAN 100 DEG F
 Flash Point: 46 DEG F SETA Flash | LEL: See SECTION II

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED.
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MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

 For Customer: 04810 NAILITE INTERNATIONAL
 Date of Prep | 12/02/94 | 1251 N. W. 165TH STREET
 | | MIAMI, FL 33169
 Cust PO#:

SECTION I

Manufacturer's Name: STRATHMORE PRODUCTS INC
 Address: 1970 WEST FAYETTE STREET
 City, State and Zip Code: SYRACUSE, NEW YORK 13201

Emergency Telephone Nos. Day: 315/488-5401
 Night: For Health - Poison Control Center 315/476-4766
 For Spills - Chem-Tel 1-800/255-3924

Manufacturers Code Identification: B35-0084 Rev. 9/20/94
 Product Class: ACRYLIC COATING
 Trade Name: PLASTICEL BLACK COATING - "C" VERSION

SECTION II - HAZARDOUS INGREDIENTS

| Ingredient Material Description | CAS Number | % By Weight | TLV ACGIH | PEL OSHA | Units | LEL % | VP MM HG | Comment |
|---|---------------|----------------|--------------|-------------|-------|----------|-------------|---------|
| # TOLUENE | 108-88-3 | 61.83 | 100.0000 | 100.0000 | PPM | 1.20 | 38.00 | |
| *See MSDS Section X | | | | | | | | |
| CARBON BLACK | 1333-86-4 | | 3.5000 | 3.5000 | MG/M3 | N.EST | N.EST | |
| AMORPHOUS SILICA | 61790-53-2 | | 10.0000 | 6.0000 | MG/M3 | N.EST | N.EST | |
| #SARA Sec.313 Supplier Notif. See MSDS Section X | | | | | | | | |

SECTION III - PHYSICAL DATA

Boiling Range: 230 - 232 DEG F | Weight per Gallon: 8.25
 Vapor Density: Heavier than Air | % Volatile by Volume: 70.60
 Evaporation Rate: Slower than Ether

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT Category: RED LABEL, FLAMMABLE LESS THAN 100 DEG F
 Flash Point: 46 DEG F SETA Flash | LEL: See SECTION II

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY.

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 APPARENT. OBTAIN MEDICAL ATTENTION.