WASTE DISPOSAL PLAN
WASTE TRANSPORTER
WASTE DISPOSAL SITE
Department of Toxic Substances Control

Edwin F. Lowry, Director
400 P Street, 4th Floor, P.O. Box 806
Sacramento, California 95812-0806

***HAZARDOUS WASTE TRANSPORTER REGISTRATION***

NAME AND ADDRESS OF REGISTERED TRANSPORTER:

BDC Special Waste Services
766 South Ayon Avenue
Azusa, California 91702

TRANSPORTER REGISTRATION NO: 3720

EXPIRATION DATE: July 31, 2000

THIS IS TO CERTIFY THAT THE FIRM NAMED ABOVE IS DULY REGISTERED TO TRANSPORT HAZARDOUS WASTE IN THE STATE OF CALIFORNIA IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 6.5, DIVISION 20 OF THE HEALTH AND SAFETY CODE AND DIVISION 4.5, TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.

THIS REGISTRATION CERTIFICATE MUST BE CARRIED WITH EACH SHIPMENT OF HAZARDOUS WASTE.

FOR REGISTRATION INFORMATION, PLEASE CONTACT MS. TARI PATTERSON AT (916) 323-3219.

[Signature]

(AUTHORIZED SIGNATURE)

[Date]

(DATE)
HAZARDOUS MATERIALS
CERTIFICATE OF REGISTRATION
FOR REGISTRATION YEAR
1999-2000

Reg. No: 061599 012 049H Issued: 06/16/99 Expires: 06/30/00

Regis. No: 061599 012 049H

Record keeping Requirements for the Registration Program

The following must be maintained at the principal place of business for a period of three years from the date of issuance of this Certificate of Registration:

1. A copy of the registration statement filed with RSMA; and
2. This Certificate of Registration

Each person subject to the registration requirement must furnish the person’s Certificate of Registration (or a copy) and all other records and information pertaining to the information contained in the registration statement to an authorized representative or special agent of the U.S. Department of Transportation upon request.

Each motor carrier (private or for-hire) and each vessel operator subject to the registration requirement must keep a copy of the current Certificate of Registration or another document bearing the registration number identified as the “U.S. DOT HazMat Reg. No.” in each truck and truck tractor or vessel (trailers and semi-trailers not included) used to transport hazardous materials subject to the registration requirement. The Certificate of Registration or document bearing the registration number must be made available, upon request, to enforcement personnel.

For information, contact the Hazardous Materials Registration Manager, DMA-60 Research and Special Programs Administration, U.S. Department of Transportation, 400 Seventh Street, SW, Washington, DC 20590, telephone (202) 366-4109.
<table>
<thead>
<tr>
<th><strong>UNIFORM HAZARDOUS WASTE MANIFEST</strong></th>
<th><strong>1. Generator's US EPA ID No.</strong></th>
<th><strong>3. Generator's Name and Mailing Address</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>7037031</td>
<td></td>
<td><strong>B &amp; J LANDFILL</strong></td>
</tr>
<tr>
<td><strong>BDC-FALCON SPECIAL WASTE SERVICES</strong></td>
<td><strong>CAR000017657</strong></td>
<td><strong>6426 HAY ROAD</strong></td>
</tr>
<tr>
<td><strong>VACAVILLE, CA 95687</strong></td>
<td></td>
<td><strong>(707) 451-3276</strong></td>
</tr>
<tr>
<td><strong>R.O. ASBESTOS, 9, NA 2212, PGIII (NAERG#171)</strong></td>
<td></td>
<td><strong>CALIFORNIA 9820424175</strong></td>
</tr>
</tbody>
</table>

11. **US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)**

   a. R.O. ASBESTOS, 9, NA 2212, PGIII (NAERG#171)

15. **Special Handling Instructions and Additional Information**

   **24 HRS. EMERGENCY: 1-800-535-9053**

   **BDG-FALCON 765 SOUTH AYON AUSA, CA 91782**

   **EPA REGION IX-75 HAWTHORNE ST., BAAQMD-939 ELLIS, SAN FRAN, CA**

   **ASBESTOS REMOVAL REQUIREMENT 40CFR61(BAGGED, SEALED & LABELED) WEST COAST**

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

   If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [Signature]  Month Day Year

17. **Transporter 1 Acknowledgement of Receipt of Materials**

   Printed/Typed Name: [Signature]  Month Day Year

18. **Transporter 2 Acknowledgement of Receipt of Materials**

   Printed/Typed Name: [Signature]  Month Day Year

19. **Discrepancy Indication Space**

20. **Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19**

   Printed/Typed Name: [Signature]  Month Day Year

**DO NOT WRITE BELOW THIS LINE.**

**DTSC 8022A (4/97)**
**EPA 8700—22**

White: **TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.**
To: **P.O. Box 3050, Sacramento, CA 95812**
NEGATIVE EXPOSURE ASSESSMENT
Air Sample Analysis (PCM) Report

Kevin Bussard  
West Coast Environmental  
3181 Fitzgerald Road  
Rancho Cordova, CA 95742-  

Phone: (916) 852-7200

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Lab #</th>
<th>Sample Location/Personnel</th>
<th>Date</th>
<th>Air Vol.</th>
<th>Fibers</th>
<th>Fields</th>
<th>Fiber/CC</th>
<th>UCL</th>
<th>LOD</th>
<th>LOQ</th>
</tr>
</thead>
</table>
| 1001          | 00-200904 | Personal: Jesus Lepe  
Room 1002 - Tile / mastic | 12/15/99 | 1097 | 1.0 | 100 | ≤0.001* | 0.001 | 0.002 | 0.0351 |
| 2002          | 00-200905 | Personal: Omar Lepe  
Room 1002 - Tile / mastic | 12/15/99 | 1046 | 6.0 | 100 | 0.003 | 0.006 | 0.003 | 0.0368 |
| 3003          | 00-200906 | Personal: Orlando Garcia  
Room 1002 - Tile / mastic | 12/15/99 | 1061 | 1.5 | 100 | 0.001* | 0.003 | 0.003 | 0.0363 |
| 4004          | 00-200907 | Personal: Rene Lepe  
Room 1002 - Tile / mastic | 12/15/99 | 1056 | 1.5 | 100 | 0.001* | 0.002 | 0.003 | 0.0365 |
| 5005          | 00-200908 | Personal: Tonie Montes  
Room 1002 - Tile / mastic | 12/15/99 | 1082 | 1.5 | 100 | 0.001* | 0.002 | 0.002 | 0.0356 |
| 6006          | 00-200909 | Personal: Omar Lepe  
Room 1002 - Tile / mastic | 12/15/99 | 1097 | 2.0 | 100 | 0.001* | 0.002 | 0.002 | 0.0351 |

OFFICIAL NOTICE: After 45 days, samples are disposed of through a licensed waste hauler, unless client requests their return.

Total Number of Samples: 6

* Samples marked with asterisks were below the limit of detection (7 fibers/mm²) for the NIOSH 7400 method.

Note: The test result findings are made to the methodologies and parameters described on the reverse of this page.
# Air Sample Analysis (PCM) Report

**Report # 99312006**

**Date Received:** 11/05/99  
**Date Analyzed:** 11/08/99

**Job Information:**  
UC Davis  
Steam Pits

---

## Sample Analysis Table

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Lab #</th>
<th>Sample Location/Personnel</th>
<th>Date</th>
<th>Air Vol</th>
<th>Fibers</th>
<th>Fields</th>
<th>Fiber/CC</th>
<th>UCL</th>
<th>LOD</th>
<th>LOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>00-200365</td>
<td>Personal: Jose Medrano Remove pipe lagging</td>
<td>10/10/99</td>
<td>1008</td>
<td>12.0</td>
<td>100</td>
<td>0.006</td>
<td>0.011</td>
<td>0.003</td>
<td>0.002</td>
</tr>
<tr>
<td>2002</td>
<td>00-200366</td>
<td>Personal: Rick Rysland Remove pipe lagging</td>
<td>10/10/99</td>
<td>1032</td>
<td>2.5</td>
<td>100</td>
<td>0.001*</td>
<td>0.003</td>
<td>0.003</td>
<td>0.0373</td>
</tr>
</tbody>
</table>

---

*OFFICIAL NOTICE: After 45 days, samples are disposed of through a licensed waste hauler, unless client requests their return.*

---

**Total Number of Samples:** 2

**Signature:**  
(For Supervisor)  
(For Analyst)

---

*Note: The test results findings are made to the methodologies and parameters described on the reverse of this page.*

---

1463 Ramona Ave, Suite 17 • Sacramento, CA 95826 • (916) 456-4892 • Fax (916) 456-1082
# 8-HOUR TIME-WEIGHTED AVERAGE REPORT

**Personnel:** JOSE MEDRANO  
**SSN:** 612-05-7319

West Coast Environmental  
3181 Fitzgerald Road  
Rancho Cordova, CA 95742-

**Date Collected:** 10/30/99  
**Job Information:**  
UC Davis  
Steam Pits

---

### Sampling History for this 8-Hour Time Period:

<table>
<thead>
<tr>
<th>Location</th>
<th>Client's Sample</th>
<th>Pump On</th>
<th>Pump Off</th>
<th>Total Time</th>
<th>Avg Flow</th>
<th>Area (sq ft)</th>
<th>Activity</th>
<th>Worker Activity</th>
<th>Respirator Protection Factor</th>
<th>Analytical Result (Fibers/CC)</th>
<th>Respirator Corrected Result (Fibers/CC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Lining</td>
<td>B101</td>
<td>07:13</td>
<td>15:59</td>
<td>08:46</td>
<td>0.71</td>
<td>300</td>
<td>Pipe Lining</td>
<td>300 sq ft</td>
<td>5.17</td>
<td>0.0006600</td>
<td>0.0000000</td>
</tr>
<tr>
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<td>07:13</td>
<td>15:59</td>
<td>08:46</td>
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<td>300 sq ft</td>
<td>5.17</td>
<td>0.0006600</td>
<td>0.0000000</td>
</tr>
</tbody>
</table>

Total Time Sampled: 480 minutes (8.00 hours)

8-Hour Time-Weighted Average: 0.006 F/CC

(Respirator-Corrected 8-Hour Time-Weighted Average: 0.0006000 F/CC)

---

**NOTE:** In the 8-hour Time Weighted Average calculation, a total of 480 minutes is used as the sampling period, unless the total time sampled is greater than 8 hours. It is assumed that the unsampled portion of the 8-hours is free of asbestos exposure. The "Respirator Protection Factor" is an estimate of the relative degree of protection offered by the various types of respirators: Half Face = 10, Full Face = 50, RMA = 400, SRA = 1000.

---

**Formula:**

\[
\text{TWA} = \frac{C_1 F_1 + C_2 F_2 + \ldots + C_n F_n}{T_1 + T_2 + \ldots + T_n}
\]

\[
C = \frac{F}{A}
\]

Where:
- \( TWA \) is the Time Weighted Average (TWA) in F/CC.
- \( C \) is the fiber concentration (F/CC).
- \( F \) is the flow rate of the sampler (L/min).
- \( A \) is the sampling area (sq ft).
- \( T \) is the total time (min).

To calculate the results of this Time Weighted Average (TWA) report, Precision Micro-Analysis, Inc. utilized client-supplied data. The responsibility for the accuracy of that data, along with the data concerning the type and fit testing of the respirators, rests solely with the client. The formula to the left is used to calculate the TWA.
**8-HOUR TIME-WEIGHTED AVERAGE REPORT**

**Personnel:** RICK ROYBAL  
**SSN:** 585-11-6060  
**Date Collected:** 10/30/99  
**Job Information:**  
UC Davis  
Steam Pits

**Sampling History for this 8-Hour Time Period:**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Pump On</th>
<th>Pump Off</th>
<th>Total Time</th>
<th>Avg Flow</th>
<th>Activity</th>
<th>Respirator Protection Factor</th>
<th>Analytical Result (Fibers/CC)</th>
<th>Respirator Corrected Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>2</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>3</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>4</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>5</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>7</td>
<td>0.5</td>
<td>0.4</td>
<td>0.45</td>
<td>0.35</td>
<td>0.4</td>
<td>1</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

**Total Time Sampled:** 480 minutes (8.00 hours)

**8-Hour Time-Weighted Average:** 0.001 F/CC  
**Respirator-Corrected 8-Hour Time-Weighted Average:** 0.000100 F/CC

---

**Formula:**

TWA = \( C_1 T_1 + C_2 T_2 + \ldots + C_n T_n \) / 480  

480 (or total time if greater than 480)  

Where \( C \) is the fiber concentration (F/CC)  

In order to calculate the results of this Time-Weighted Average (TWA) report, Precision Micro-Analysis, Inc. utilized client-supplied data. The responsibility for the accuracy of such data, along with the data concerning the type and fit testing of the Respirators, rests solely with the client. The formula to the left is used to calculate the TWA. The TWA and analysis is stated on the reverse side.
PRODUCT DATA AND MSDS SHEETS
**MATERIAL/EQUIPMENT LIST**

<table>
<thead>
<tr>
<th>Item</th>
<th>Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Half Face Respirators</td>
<td>North 7700 Series</td>
</tr>
<tr>
<td>Protective Clothing</td>
<td>Lakeland Industries</td>
</tr>
<tr>
<td>Polysheeting</td>
<td>TRM Manufacturing</td>
</tr>
<tr>
<td>Tape</td>
<td>Nashua 398</td>
</tr>
<tr>
<td>Shower Facility</td>
<td>Abatement Technologies</td>
</tr>
<tr>
<td>HEPA Vacuums</td>
<td>Pullman-Holt Wet/Dry Vacuum</td>
</tr>
<tr>
<td>Negative Air Machines</td>
<td>CRSI 1800/2000</td>
</tr>
<tr>
<td>Encapsulant</td>
<td>Aerospace America, Inc.</td>
</tr>
<tr>
<td>Surfactant</td>
<td>IPC Seripiloc Lockdown</td>
</tr>
<tr>
<td>Mastic Remover</td>
<td>Water</td>
</tr>
<tr>
<td></td>
<td>Safety Blue Low Odor</td>
</tr>
</tbody>
</table>
PRE-MIXED LOCK-DOWN PENETRATING ENCAPSULANT

- Lock-Down
- Penetrating Encapsulant
- Ground Sealer
- Non-Toxic
- Odorless
- Non-Combustible
- Meets or Exceeds EPA, OSHA, U.L. and ASTM Requirements

For All Areas From Which Asbestos Containing Materials Have Been Removed And Any Other Contaminated Surfaces.

Product Description:
A pre-mixed UL Classified asbestos encapsulant for lock-down, penetrating and ground sealer applications.

Pre-mixed Lock-Down (Post Removal) Application
- Use airless spray equipment Bink, Grayco or equal.
- 3/8" (9.5mm) to 1/2" (12.7mm) hose w/.017 tip - 12 inch (30cm) fan.
- One coat as needed.
- Compatible with most insulation and fireproofing spray-back products.
- Spray at rate of 450 sq. ft./gal. (11.1m²/L)

Pre-Mixed Penetrating Application
For friable, porous, sprayed-on fireproof Acoustical Insulation up to 3/4" (1.91cm) thick or greater.
- Apply by airless spray.
- Application Rate: 30 sq. ft. per gallon (.74m³/L) per 3/4" (1.91cm) of penetration.

- Deeper penetration at lower rate.
- Apply multiple coats in one application.
- Keep spray gun moving, Apply until surface glistens or material appears on surface. Apply heavy 1st coat using 20 of material.
- Let dry 4 hours. Apply balance of material.

Ground Sealer Application
For crawl spaces and other contaminated soil areas.
- Use airless spray equipment.
- 3/8" (9.5mm) to 1/2" (12.7mm) hose w/.022 tip - 12 inch (30cm) fan.
- Apply multiple coats in one application.
- Keep spray gun moving; apply until surface glistens or material appears on surface or as needed.
- Rate of 30 sq. ft. per gal. (.74m³/L) per 1 inch (2.54cm) of penetration (average loose soil).
- Rate may vary.
- Will not penetrate wet or clay earth.
- Rate of penetration will vary according to different soil conditions.
# Pre-Mixed Lock-Down Penetrating Encapsulant

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>A ready-mixed coating material of vinyl-acrylics and water-based resins, various flame retardant chemicals and fillers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Matte-white, clear or colored at no extra charge.</td>
</tr>
<tr>
<td>Finish</td>
<td>Semi-gloss</td>
</tr>
<tr>
<td>Surface Dusting</td>
<td>none</td>
</tr>
<tr>
<td>Fiber Dispersion</td>
<td>none - Via P.L.M. 1000 x magnification scrub test</td>
</tr>
<tr>
<td>Density</td>
<td>3.9 lbs. per gallon</td>
</tr>
<tr>
<td>Viscosity</td>
<td>55-65 kcs units or stower viscometer</td>
</tr>
<tr>
<td>Percent of Solids</td>
<td>16.7% by weight</td>
</tr>
<tr>
<td>Adhesion-Cohesion</td>
<td>Passes Battelle test, over 100% increased</td>
</tr>
<tr>
<td>Water, Moisture Resistance</td>
<td>Excellent</td>
</tr>
<tr>
<td>Occr</td>
<td>Odorless when dry, negligible when wet</td>
</tr>
<tr>
<td>Gardner Impact Test</td>
<td>Exceeds E.P.A. requirement</td>
</tr>
<tr>
<td>Ira Resistance</td>
<td>ASTM E-84-84A rated 5</td>
</tr>
<tr>
<td>Toxic Gas Release</td>
<td>Battelle: &quot;well below danger level.&quot; Tested in accordance with the National Academy of Sciences.</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>At least one year in closed original containers at room temperature</td>
</tr>
<tr>
<td>Packaging</td>
<td>5 gallon (18.93L) containers, 55 gallon (208L) drums</td>
</tr>
<tr>
<td>Storage</td>
<td>40°F to 90°F or 5°C to 30°C. Protect from freezing</td>
</tr>
<tr>
<td>Temp. Range</td>
<td>Up to 1800°F (981°C)</td>
</tr>
<tr>
<td>Vapor Permeability</td>
<td>ASTM E 96 0.50</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td>20 years + per U.S. Testing Co. accelerated aging test</td>
</tr>
<tr>
<td>Re-Insulation Compatibility (Spray Back)</td>
<td>Tested with W.R. Grace Co., exceeds all requirements for re-fireproofing per ASTM E-119, U.L. 253</td>
</tr>
</tbody>
</table>

**IMPORTANT:** The information contained herein is correct to the best of our knowledge and tests. The recommendations and suggestions contained herein are made without guarantee or representations as to results. We recommend that adequate tests be made by the purchaser to determine if a product is suitable for the intended purpose and use. Our only obligation shall be to replace or pay for any material proved defective by our laboratory within our published shelf life period. Beyond the purchase price of materials supplied by us, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied. The suitability of these products for as intended use shall be solely up to the user.

**International Protective Coatings Corp.**

725 Carol Avenue  
Ocean Twp., NJ 07712-2743  
USA Toll Free: 1-800-234-8796  
Phone: 908-531-5666  
Fax: 908-531-5192

Distribution centers located at Hatfield, PA - Mira Loma, CA
MATERIAL SAFETY DATA SHEET

Manufacturer's Name: International Protective Coatings Corp.
725 Carol Ave
Oakhurst, NJ 07755
Date of preparation: October, 1993
Prepared By: M. Navarro

Emergency Telephone No.:
(800) 424-9300

Information Telephone No.:
(908) 531-3668 (800)-334-8796

SECTION I - PRODUCT IDENTIFICATION

Product Name: Sarpilo® Clear/White SSP05
Product Class: Filled Vinyl & Acrylic Emulsion

HMIS: H 0 0 0

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Weight Percent</th>
<th>Occupational Exposure Limits</th>
<th>Vapor Pressure, mm Hg @ Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>0.0</td>
<td>50 ppm ACGIH TLV</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

Boiling Range: 212 °F (100 °C)
Vapor Density: (Air = 1) > 1.0
VGC'S: 0.23 g/L
Vapor Pressure: 1.0
% Volatile By Volume: 80.0
Wgt/ Gal.: 10.0
Appearance and Odor: White liquid, mild latex odor.
Solubility In Water: Appreciable

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: LEL: N/A
Flash Point: None (water base compound) UEL: N/A
Extinguishing Media: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog.

Unusual Fire And Explosion Hazards: This product will not burn, but may spatter if the temperature exceeds the boiling point. Dried film may burn in an intense fire.

SPECIAL FIREFIGHTING PROCEDURES: Self contained breathing apparatus should be used, especially in closed areas such as warehouses.

SECTION V - HEALTH HAZARD DATA

Effects Of Overexposure: Eyes: Irritation.
Skin: Excessive exposure may cause drying and chapping.
Inhalation: May cause gagging, nausea and upper respiratory distress.
Ingestion: Possible nausea.

Medical Conditions Prone To Aggravation By Exposure: None Known
Primary Route(s) of Entry: Dermal, Inhalation, Ingestion.

Emergency and First Aid Procedures:
- Eyes: Flush with water for 15 minutes. Do not rub. Consult physician if irritation persists.
- Skin: Wash with soap and water.
- Inhalation: Remove to fresh air.
- Ingestion: Induce vomiting. Consult physician.

Chemical listed as a carcinogen or potential carcinogen:

NTP: NO
CSHA: NO
IARC: NO

SECTION VII: REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Primarily Carbon Monoxide and/or Carbon Dioxide. Trace amounts of Nitrogen and asphyxiants.
Conditions to Avoid: Not Applicable.
Incompatibility (materials to avoid): Strong Acids and Alkaline Agents.

SECTION VIII: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Keep all spectators away. Uncontaminated material may be recovered and reused. If contaminated, scoop into receptacle for disposal.
Waste Disposal Method: Allow material to dry. Dispose of solid waste in accordance with federal, state and local regulations.

SECTION VIII: SAFE HANDLING & USE INFORMATION

Respiratory Protection: Use NIOSH approved respirator in poorly ventilated areas.
Ventilation: General (mechanical) room ventilation is to be satisfactory for normal usage.
Protective Gloves: Impermeable.
Eye Protection: Safety Glasses or Goggles.
Other Protective Equipment: As needed.

Hygienic Practices: Avoid contact with skin and clothing. Wash after use and launder contaminated clothing before reuse.

SECTION IX: SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storage: Seal container when not in use. Store in well ventilated area.

Other Precautions: The information and recommendations offered herein are for the user's consideration and examination and is to be used in addition to all other information that is available and pertinent. It is the user's responsibility to determine the suitability of its specific conditions and particular use.

IMPORTANT NOTE: This information references the product itself, not in combination with any other material with which it may eventually be spilled or come in contact with. The user must determine any local, state or federal regulations regarding the use and disposal of this product in conjunction with other materials which may be regulated (For example: Asbestos or asbestos containing materials).
September 22, 1993

TO WHOM IT MAY CONCERN:

Filtration Master, Inc. is a manufacturer of Filtration Products.

In regards to our Shower Filters, Filtration Master, Inc. certifies that the rated micron levels are correct on efficiency.

Filtration Master, Inc. manufactures the 1 micron, 5 micron, 10 micron, 20 micron, 25 micron, 50 micron, 100 micron, 400 micron and 600 micron water cartridges.

Filtration Master, Inc. guarantees each filter to meet or exceed this rated micron levels.

If you should have any questions, please feel free to call my office at (804) 676-3101.

Best Regards,

Bruce Masters
President

BMM/da
Material Safety Data Sheet

IDENTITY (As Used on Label and List)

EMI Water Cartridge

Section I

Manufacurer's Name

Filtration Master, Inc.

Emergency Telephone Number

(804) 676-3101

Address: Number, Street, City, State, and ZIP Code

138 N. Main St.

Kembridge, Va. 23044

Date Prepared

4/29/91

Signature of Preparer (optional)

Section II - Hazardous Ingredient/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))

None known to Filtration Master, Inc.

"This is an article which does not release or otherwise result in exposure to a Hazardous Chemical under normal conditions of use. See 1910.1200 (a) "Article".

Section III - Physical/Chemical Characteristics

Boiling Point

N/A

Specific Gravity (H2O = 1)

N/A

Melting Point

1

Vapor Pressure (mm Hg)

N/A

Molal Point

Vapor Density (AIR = 1)

N/A

Evaporation Rate (Btu/cecal = 1)

N/A

Solubility in Water

None

Appearance and Odor

Lofty Fibrous Structure. Essentially Odorless

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

Not Applicable (nonvolatile, combustible)

Flammable Limits

N/A

LEL

UEL

Extinguishing Media

Water spray, dry chemical, CO2

Self-contained breathing apparatus and protective clothing must be worn in fighting fires.

None Known

Initials and Date

Jul 01 00 11:42

No. 011 P. 01

TEL No. 18005434592

Jul 12.93 17:10

TEL No. 6762988

Form Approved

OMB No. 1218-0072

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)
Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Unsuitable Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slape</td>
<td>X</td>
</tr>
<tr>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Oxidizing materials can cause a reaction**

Acetic Decomposition or byproducts:
Combustion can produce CO2, CO, HC- Aromatic & Aliphatic Hydrocarbons

Section VI - Health Hazard Data

Routes of Entry:
Inhalation?
Ingestion?

Health Hazards (Acute and Chronic):
N/A

Emergency and First Aid Procedures:
None should be needed

Section VII - Precautions for Safe Handling and Use

Provisions to be taken in case material is released or spilled
N/A

Waste Disposal Method:
Landfill or incineration in compliance with all Federal, State & Local regulations

Precautions to be taken in handling and storing
N/A

Section VIII - Control Measures

Respiratory Protection (Specify Type)
None should be required

Evaporation Location
Local Exhaust
None should be required

Mechanical (General)
Special

None should be required

Other
N/A

Protective Gloves

Eye Protection

Protective Clothing or Equipment

Non-Porous Practices

Normal safety practices as in any industrial operation
MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1913, 1915, 1917)

SECTION I

MANUFACTURER'S NAME
A. E. P. INDUSTRIES, INC.

ADDRESS (Number, Street, City, State, and ZIP Code)
30 Raquieres Pkwy., Moonachie, N.J. 07074

TRADE NAME AND SYNONYMS
N/A

CHEMICAL FAMILY
POLYETHYLENE

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>% TLV (units)</th>
<th>ALLOYS AND METALLIC COATINGS</th>
<th>% TLV (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIGMENTS</td>
<td>N/A</td>
<td>BASE METAL</td>
<td></td>
</tr>
<tr>
<td>CATALYST</td>
<td>N/A</td>
<td>ALLOYS</td>
<td></td>
</tr>
<tr>
<td>VEHICLE</td>
<td>N/A</td>
<td>METALLIC COATINGS</td>
<td></td>
</tr>
<tr>
<td>SOLVENTS</td>
<td>N/A</td>
<td>FILLER METAL</td>
<td></td>
</tr>
<tr>
<td>ADDITIVES</td>
<td>N/A</td>
<td>PLUS COATING, CORE FLUX</td>
<td></td>
</tr>
<tr>
<td>OTHERS</td>
<td>N/A</td>
<td>OTHERS</td>
<td></td>
</tr>
</tbody>
</table>

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT (°C)</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mmHg)</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>N/A</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>NIL</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>FROSTED - No Odor</td>
</tr>
</tbody>
</table>

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT (Method used)</td>
<td>N/A</td>
</tr>
<tr>
<td>FLAMMABLE LIMITS (STP, In air)</td>
<td></td>
</tr>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>Water, Foam, CO2, Dry Chemical</td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>Pressure demand - Self-contained Breathing apparatus in close space - Dense smoke emitter when burned without sufficient oxygen</td>
</tr>
<tr>
<td>UNUSUAL FIRE AND EXPLOSION HAZARDS</td>
<td>Not determined</td>
</tr>
<tr>
<td>D.F.L. not determined</td>
<td>U.F. not determined</td>
</tr>
</tbody>
</table>
SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Effects of Overexposure
Unknown

Emergency and First Aid Procedures

Ingestion: Very low single dose oral toxicity. Considered to be Physiologically inert. Eye contact - possible slight irritation. Skin contact - mechanical injury. Inhalation - No guide for control known.

Nuisance - Dust - Effects of overexposure - unknown

SECTION VI - REACTIVITY DATA

STABILITY

Temperature

over 572 F

UNSTABLE

Conditions to Avoid

Combustible gases when exposed to temperature over 572 F - 300 C.

INCOMPATABILITY (Materials to avoid)

None

HAZARDOUS DECOMPOSITION PRODUCTS

Combustible gases over 572 F - 300 C

HAZARDOUS POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

CONDITIONS TO AVOID

X

SECTION VII - SPILL OR LEAK PROCEDURES

Ways to be taken in case material is released or spilled

Sweep up and discard

Waste Disposal Method

Bury in landfill or burn in adequate incinerator

SECTION VII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type)

None normally needed

Ventilation

Local Exhaust

None

Protective Goggles

None required

Eye Protection

None normally recommended

Protective Equipment

None normally required

SECTION IX - SPECIAL PRECAUTIONS

Caution to be taken in handling and storing

Practice reasonable care and caution

GE (2)
1. PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

**PRODUCT NAME:** POLYETHYLENE FILM
**CHEMICAL NAME:** POLYETHYLENE OR ETHYLENE VINYL ACETATE COPOLYMER
**CHEMICAL FAMILY:** POLYETHYLENE OR ETHYLENE VINYL ACETATE COPOLYMER
**PRODUCT APPEARANCE:** COLORLESS FILM
**EMERGENCY TELEPHONE NUMBERS:** 201-431-8032 DURING BUSINESS HOURS

2. HAZARDOUS COMPONENTS OF MIXTURES

NOT APPLICABLE FOR THIS PRODUCT

3. HEALTH INFORMATION AND PROTECTION

**FIRST AID & NATURE OF HAZARD INHALATION:**
FIRST AID IS Normally NOT REQUIRED. NO HAZARD IN NORMAL INDUSTRIAL USE.
**EYE CONTACT:**
FIRST AID IS Normally NOT REQUIRED. NO HAZARD IN NORMAL INDUSTRIAL USE.
**SKIN CONTACT:**
FIRST AID IS Normally NOT REQUIRED. NO HAZARD IN NORMAL INDUSTRIAL USE.
**INGESTION:**
FIRST AID IS Normally NOT REQUIRED. NO HAZARD IN NORMAL INDUSTRIAL USE.

**SOCIAL PRECAUTIONS:**
AT TEMPERATURES ABOVE 482 DEG F. AS MIGHT OCCUR AT A HOT WIRE OR CUTTER BAR SURFACE, SOME DECOMPOSITION AND POLYMERIC BREAKDOWN OCCURS, PRODUCING CARBON MONOXIDE, CARBON DI OXIDE, WATER VAPOR AND POLYMERIC FUMES. LABORATORY INVESTIGATION OF THE FUMES HAS INDICATED THEY ARE COMPOSED PRIMARILY OF PARA-PHINIC AND OLEYTHIC HYDROCARBONS IN THE RANGE OF 8 TO 20 CARBON ATOMS. SMALL AMOUNTS OF BY-PRODUCTS RELATED TO SPECIFIC ADDITIVES OR PIGMENTS IN THE RESIN MAY BE PRESENT.

THE AIRBORNE CONCENTRATION OF POLYMERIC FUMES WHICH ARE CONSIDERED A HEALTH NUISANCE, SHOULD BE KEPT BELOW 5 MILLIGRAMS PER CUBIC METER AND THE CARBON MONOXIDE CONCENTRATION KEPT BELOW 50 PARTS PER MILLION OF AIR (ACGIH TLV'S). THIS CAN BE ACCOMPLISHED THROUGH THE USE OF LOCAL EXHAUST VENTILATION OF THE HEAT SEALING/CUTTING DEVICE(S) AND/OR POWERED VENTILATION OF THE WORK AREA.

**PERSONAL PROTECTION:**
WHERE OVEREXPOSURE BY INHALATION MAY OCCUR AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT ADEQUATE, APPROVED RESPIRATORS MAY BE NECESSARY.

**VENTILATION:**
LOCAL EXHAUST VENTILATION OF PROCESS EQUIPMENT MAY BE NEEDED TO CONTROL EXPOSURES TO BELOW THE RECOMMENDED EXPOSURE LIMIT. SEE PERSONAL PROTECTION RECOMMENDATIONS.
4. FIRE & EXPLOSION HAZARD

FLASHPOINT DEG. F: 432
METHOD: NOTE: DECOMPOSES > 432 DEGREES F
FLAMMABLE LIMITS - LEL: UEL: NOTE: NOT AVAILABLE
AUTOIGNITION TEMPERATURE DEG. F: NOTE: NOT AVAILABLE

GENERAL HAZARD:
SOLID MATERIAL, MAY BURN AT OR ABOVE THE FLASHPOINT.
IF THERMALLY DECOMPOSED, FLAMMABLE/TOXIC GASES MAY BE RELEASED.
TOXIC GASES WILL FORM UPON COMBUSTION.
STATIC DISCHARGE, MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN
CAUSE AN INCENDIARY ELECTRICAL DISCHARGE.

FIRE FIGHTING:
USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES, PROTECT PERSONNEL,
AND EXTINGUISH THE FIRE.
RESPIRATORY AND EYE PROTECTION REQUIRED FOR FIRE FIGHTING
PERSONNEL.

HAZARDOUS COMBUSTION PRODUCTS:
SOME CARBON MONOXIDE UNDER OXYGEN LEAN CONDITIONS.

5. SPILL CONTROL PROCEDURE

AND SPILL:
RECOVER SPILLED MATERIAL AN PLACE IN SUITABLE CONTAINERS FOR RECYCLE
OR DISPOSAL.
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE
CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

WATER SPILL:
RECOVER SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR
RECYCLE OR DISPOSAL.
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE
CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

6. NOTES

C A S NUMBER FOR POLYETHYLENE IS 9002-88-4.
C A S NUMBER FOR ETHYLENE VINYL ACETATE COPOLYMER IS 24917-78-6.

7. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

SP. GRAVITY: 0.91 @ 60.0
REF. TEMP. F: 0.97 @ 60.0
VAPOR PRESSURE: N/A
SOLUBILITY IN WATER: IN SOLUBLE
VIScosity OF LIQUID: N/A
SP. GRAVITY OF VAPOIR: N/A
FREEZING MELTING POINT/RANGE: N/A
BOILING POINT/RANGE: N/A
EVAPORATION RATE: N/A
(N/A = NOT APPLICABLE)
8. Reactivity Data

Stability? Hazardsous polymerization occur? Will not occur
Stable

Conditions to avoid instability Conditions to avoid hazardous
Prolonged heating over 482
Deg. F may cause thermal
Decomposition
Not applicable

Materials and conditions to avoid incompatibility
Strong oxidizers

Hazardous decomposition products
Carbon monoxide, olefinic or paraffinic hydrocarbons

9. Transport and Storage

Electrostatic accumulation hazard
Yes, use proper grounding procedure

Storage temperature
Not applicable

Loading/unloading temperature
Not applicable

Storag/Transport pressure
Not applicable

Viscosity at loading/unloading
Temperature
Not applicable

10. Hazard Classification

U.S. DOT classification
Not regulated

EPA hazardous substance
Not regulated

Additional Information:
Under the provisions of Title III. Sections 311/312 of the
Superfund Amendments and Reauthorization Act, this product is
Classified into the following hazard categories: Not hazardous.

This information relates to the specific material designated and may not
Be valid for such material used in combination with any other materials
Or in any process. Such information is to the best of our knowledge and
Belief, accurate and reliable as of the date compiled, however, no
Representation, warranty or guarantee is made as to its accuracy,
Reliability or completeness. It is the user's responsibility to satisfy
Himself as to the suitability and completeness of such information for
His own particular use. We do not accept liability for any loss or
damage that may occur from the use of this information.

Prepared: January 5, 1992