**MATERIAL SAFETY DATA SHEET**

**AGFA DIVISION**
MILES INC.
100 Challenger Road
Ridgefield Park, NJ 07660

**Non-Emergency Telephones**
NJ (201) 440-2500
NY (212) 971-0260

**SECTION 1: CHEMICAL PRODUCT IDENTIFICATION**

**PRODUCT NAME:** CP-297B Universal Developer

**PRODUCT DESCRIPTION:** Aqueous Alkaline Solution

**FORMULA:** MP-9508/03E2

**BUSINESS GROUP:** Graphic Systems

**MEDICAL EMERGENCY TELEPHONE (Poison Center):** (300) 623-5716

**TRANSPORTATION EMERGENCY TELEPHONE (Chemtrec):** 1-800-424-9300

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS (Typical Values)**

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>CAS NO.</th>
<th>WT %</th>
<th>ACGIH(TLV)</th>
<th>OSHA/PEL†</th>
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</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>1.5</td>
<td>( )</td>
<td>( )</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2mg/m³</td>
<td>2mg/m³</td>
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<table>
<thead>
<tr>
<th>OTHER IMPORTANT INGREDIENTS</th>
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</thead>
<tbody>
<tr>
<td>Water</td>
</tr>
<tr>
<td>Sodium Sulfite</td>
</tr>
<tr>
<td>Sodium Thiosulfate</td>
</tr>
<tr>
<td>Methylaminoethanol</td>
</tr>
<tr>
<td>CAS NO.</td>
</tr>
<tr>
<td>7732-16-5</td>
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<tr>
<td>7757-63-7</td>
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<tr>
<td>7772-98-7</td>
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<td>103-63-1</td>
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<tr>
<td>WT %</td>
</tr>
<tr>
<td>80-90</td>
</tr>
<tr>
<td>1-10</td>
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<tr>
<td>1-5</td>
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<tr>
<td>1-5</td>
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<tr>
<td>ACGIH(TLV)</td>
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<tr>
<td>( )</td>
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<td>( )</td>
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<td>( )</td>
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<td>( )</td>
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</tbody>
</table>

†The PEL limit values listed above are published figures from the 1989 Title 29, CFR 1910.1000, Z list using transitional limits. "None Established" indicates the PEL value is not established.

**SECTION 3: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**
Keep unnecessary people away and upwind of fire. Toxic gases may be emitted when heated to decomposition. Some of these materials may burn but none of them ignite readily. Follow Section 5 for fire fighting measures and Section 6 for accidental release measures. In case of contact with material, immediately flush eyes with running water for at least 15 minutes. See ERG Guide # 31.

**POTENTIAL HEALTH EFFECTS:** Routes of Entry ................................................................ Eye, Skin, Inhalation, Ingestion

A. **ACUTE EXPOSURE EFFECTS (NOTE: Pertains to Finished Product)**

- **Eye Contact:** May cause irritation.
- **Skin Contact:** May cause irritation; may cause allergic skin reaction.
- **Inhalation:** Normally no problem, but inhalation of mist could cause respiratory irritation.
- **Ingestion:** May cause irritation of the mucous membranes or digestive tract.
B. CHRONIC HEALTH EFFECTS (NOTE: Pertains to each ingredient listed in Section 2 per 29 CFR Sect. 1910.1200)

Hydroquinone: Repeated contact can cause skin sensitization and allergic dermatitis. Chronic overexposure can cause anemia and discoloration and corneal opacity of the eyes.

All Other Ingredients in Section II: A computerized literature search of national databases did not yield any chronic effects associated with these materials.

Carcinogenicity Listing  NTP No.  IARC No.  OSHA No.

SECTION 4: FIRST AID MEASURES

Eyes:  Immediately flush with plenty of running water for at least 15 minutes. Obtain medical attention.
Skin:  Flush affected areas promptly with water for 15 minutes. Remove contaminated clothing. In case of continued irritation consult physician.
Inhalation:  For over-exposure, remove to fresh air.
Ingestion:  Obtain immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Data:  Noncombustible
Fire and Explosion Hazards:  None
Extinguishing Media:  Any applicable to primary cause of fire.
Special Fire Fighting Procedures:  Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.
Unusual Fire & Explosion Hazards:  When heated to decomposition emission of toxic fumes of SO₃ is possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:  NOTE: Review Sections 5 and 8 before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dilute Spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Spill may be neutralized with powdered Citric Acid.

SECTION 7: HANDLING AND STORAGE

Avoid eye and skin contact, and store in well-ventilated area. Keep container tightly closed. Do not store with incompatible materials (see Section 10). Do not store or consume food, drink or tobacco in area where they may become contaminated with this material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:  None needed with working mixtures and normal room ventilation (10 changes of air per hour).
Ventilation:  Room ventilation is sufficient. Avoid use of product in unventilated areas. Always control airborne levels below the exposure guidelines when reported in Section 2 (use 50% of the TLV).
Skin and Eye Protection:  Splash protection required for eyes, e.g., eye glasses with side shields or goggles. For skin protection use chemical resistant gloves and aprons. Disposable coveralls are optional, and discard after use.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **BOILING POINT**: Approx. 221°F
- **MELTING POINT**: Not Applicable
- **VAPOR PRESSURE**: Not Estimated
- **VAPOR DENSITY (AIR=1)**: Not Estimated
- **EVAPORATION RATE**: Not Estimated
- **VOLATILE FRACTION BY WEIGHT**: Not Estimated
- **SOLUBILITY IN WATER (By Weight %)**: 100%
- **SPECIFIC GRAVITY (H₂O=1)**: 1.070
- **pH**: 10.90
- **APPEARANCE**: Clear and light yellow liquid
- **ODOR**: Slight fishy odor

SECTION 10: STABILITY AND REACTIVITY

- **Stability**: Stable
- **Incompatibility**: Strong acids, oxidizers
- **Hazardous Decomposition Products**: Oxides of sulfur and nitrogen, CO₂, carbon monoxide
- **Hazardous Polymerization**: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

For Hydroquinone - Toxicity Data:
- Oral-Human LD₅₀: 29mg/kg
- Oral-Rat LD₅₀: 320mg/kg

SECTION 12: ECOLOGICAL INFORMATION

- **General**: Not expected to present any significant ecological problems.

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal**: Recover nonusable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system. Incineration is recommended. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pretreatment.

SECTION 14: TRANSPORTATION INFORMATION

- **DOT, IMO, ICAO, Transport Canada**: Non-Regulated
- **NFPA**:
  - HEALTH: 1
  - FLAMMABILITY: 0
  - REACTIVITY: 0
  - SPECIAL: None

4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATION


TSCA: All ingredients in this finished product are listed on the EPA TSCA Inventory (see Section 2).

CERCLA HAZARDOUS SUBSTANCE (40 CFR 302): Hydroquinone (Reportable Quantity = 1 lb.)

SARA Title III: Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

SARA Hazard Categories: Immediate and Delayed (see Section 3, Acute & Chronic Health Effects).

Components present in this product at a level which could require reporting under the statute are: Hydroquinone

<table>
<thead>
<tr>
<th>CHEMICAL SUBSTANCE</th>
<th>CAS NO.</th>
<th>CONCENTRATION %</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<td>X</td>
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<table>
<thead>
<tr>
<th>FEDERAL REGULATIONS</th>
<th>STATE REGULATIONS</th>
<th>INTERNATIONAL REGULATIONS</th>
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<tbody>
<tr>
<td>A = SARA</td>
<td>B = California Proposition 65</td>
<td>E = EINECS</td>
</tr>
<tr>
<td></td>
<td>C = Florida</td>
<td>F = WHMIS (Canada)</td>
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<tr>
<td></td>
<td>D = Rhode Island</td>
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</table>

SECTION 16: OTHER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the knowledge of AGFA DIVISION of MILES INC. The data on this sheet relates only to the specific material designed herein and does not relate to use in combination with any other material or in any process. AGFA DIVISION of MILES INC. assumes no legal responsibility for use of reliance upon this data. The information herein is provided solely for your consideration, investigation, and verification.

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