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: GEVALITH® Rapid Fixer
PRODUCT DESCRIPTION: Aqueous Acidic Solution
FORMULA: MMRF-473(Rev)
BUSINESS GROUP: Graphic Systems

MEDICAL EMERGENCY TELEPHONE (Poison Center): (303) 823-5716
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>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Thiosulfate</td>
<td>7783-16-8</td>
<td>45-50</td>
<td>25 ppm as ammonia</td>
<td>50 ppm as ammonia</td>
</tr>
<tr>
<td>Other Important Ingredients</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>35-40</td>
<td>*NE</td>
<td>*NE</td>
</tr>
<tr>
<td>Sodium Sulfite</td>
<td>7757-83-7</td>
<td>1-5</td>
<td>*NE</td>
<td>*NE</td>
</tr>
<tr>
<td>Sodium Acetate</td>
<td>127-05-3</td>
<td>1-5</td>
<td>*NE</td>
<td>*NE</td>
</tr>
<tr>
<td>Sodium Tetraborate</td>
<td>1303-95-4</td>
<td>1-5</td>
<td>*NE</td>
<td>*NE</td>
</tr>
</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

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 ignites 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.
   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)

A computerized literature search of national databases did not yield any chronic effects associated with these materials.

<table>
<thead>
<tr>
<th>Carcinogenicity Listing</th>
<th>NTP No.</th>
<th>IARC No.</th>
<th>OSHA No.</th>
</tr>
</thead>
</table>

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 SO₂ 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. Dike Spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material.

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): 1.356
pH: 5.15
APPEARANCE: Clear and colorless liquid
ODOR: Slight sulfur dioxide odor

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable
Incompatibility: Strong alkali, strong acids, oxidizers
Hazardous Decomposition Products: Oxides of sulfur, CO₂, carbon monoxide, ammonia
Hazardous Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological properties of this substance have not been fully investigated.

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. Ineneration 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

NEPA

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): not listed

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 (see Section 3, Acute Health Effects). Components present in this product at a level which could require reporting under the statute are: Ammonia

<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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<tbody>
<tr>
<td>Ammonium Thiosulfate</td>
<td>7783-18-8</td>
<td>7.6 as ammonia</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
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</table>

FEDERAL REGULATIONS

STATE REGULATIONS

INTERNATIONAL REGULATIONS

A = SARA

B = California Proposition 65

C = Florida

D = Rhode Island

E = EINECS

F = WHMIS (Canada)

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 or reliance upon this data. The information herein is provided solely for your consideration, investigation, and verification.

For Technical Information Contact: Graphic Systems
Agfa Division
Miles Inc.
100 Challenger Road
Ridgefield Park, NJ 07660
(201) 440-2200