MATERIAL SAFETY DATA SHEET

Product Name: ZONAL PRO EC RAPID FIX (CONC)

Part #: 54-312/315/317

SECTION I SUPPLIER INFORMATION

<table>
<thead>
<tr>
<th>Common Name</th>
<th>ZONAL PRO EC RAPID FIX (CONC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>MIXTURE</td>
</tr>
<tr>
<td>Formula/CAS</td>
<td>NA</td>
</tr>
<tr>
<td>Supplier</td>
<td>ALTA PHOTOGRAPHIC, INC.</td>
</tr>
<tr>
<td>Address</td>
<td>11526 SORRENTO VALLEY RD</td>
</tr>
<tr>
<td>City, St, Zip</td>
<td>SAN DIEGO CA 92121</td>
</tr>
<tr>
<td>Supplier #:</td>
<td>ALTA</td>
</tr>
<tr>
<td>Emergency Phone #:</td>
<td>800-424-9300</td>
</tr>
<tr>
<td>Date Issued:</td>
<td></td>
</tr>
<tr>
<td>Date Revised:</td>
<td></td>
</tr>
</tbody>
</table>

SECTION II INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>AMMONIUM THIOSULFATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
</tr>
<tr>
<td>CAS #: 7783-18-8</td>
</tr>
<tr>
<td>PEL-OSHA: NE</td>
</tr>
<tr>
<td>TLV-ACGIH: NE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SODIUM SULFITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
</tr>
<tr>
<td>CAS #: 7757-83-7</td>
</tr>
<tr>
<td>PEL-OSHA: 5MG/M3</td>
</tr>
<tr>
<td>TLV-ACGIH: 5MG/M3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACETIC ACID</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
</tr>
<tr>
<td>CAS #: 64-19-7</td>
</tr>
<tr>
<td>PEL-OSHA: 10PPM</td>
</tr>
<tr>
<td>TLV-ACGIH: 10PPM</td>
</tr>
</tbody>
</table>

SECTION III PHYSICAL/ CHEMICAL CHARACTERISTICS

Boiling Point : 212 F
Specific Gravity (H2O = 1) : 1.340

SECTION III PHYSICAL/ CHEMICAL CHARACTERISTICS continued on the next page.
SECTION III  PHYSICAL/Chemical characteristics continued from previous page.

Melting Point: NA  PH=5.10  
Vapor Pressure (mm Hg): APPRX 18  
Vapor Density (Air=1): APPRX 1  
Evaporation Rate (Butyl Acetate=1): APPRX 1  
Solubility/Water: COMPLETE  PERCENT VOLATILE BY VOLUME: >80% H2O  

**************************************************  Appearance and odor  **************************************************

CLEAR TO LIGHT YELLOW SOLUTION, FAINT AMMONIA ODOR.  

**************************************************  Additional information  **************************************************


<table>
<thead>
<tr>
<th>SECTION IV  Fire and Explosion Hazard Data</th>
</tr>
</thead>
</table>

Flash Point: NONE  
Auto-Ignition: NA  
LEL: NA  
UEL: NA  

************************************************************************ NFPA HAZARD CLASSIFICATION  **************************************************************************

Flammable: 0  Health: 1  Reactivity: 0  Special: 0  

************************************************************************ EXTINGUISHING MEDIA  **************************************************************************

WATER, DRY CHEMICAL, ALCOHOL FOAM, CO2  
NON-FLAMMABLE. 
FIGHT FIRE WITH MEDIA APPROPRIATE FOR SURROUNDING MATERIALS.  

************************************************************************ SPECIAL FIRE FIGHTING PROCEDURES  **************************************************************************

NONE KNOWN.  

************************************************************************ UNUSUAL FIRE AND EXPLOSION HAZARDS  **************************************************************************

NONE KNOWN.  

|  SECTION V  Reactivity Data  |
INCOMPATIBILITY (Materials to Avoid)

STRONG ACIDS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS

OXIDES OF SULFUR.

Polymerization? POLYMERIZATION WILL NOT OCCUR

Avoid: NONE KNOWN.

SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY

Inhalation? YES
Skin? YES
Ingestion? YES
Eyes? YES

ADDITIONAL INFORMATION

CONTACT PERSON: JANET ALLETAG
R&D LABORATORY MANAGER.

CARCINOGENICITY

NTP? NO
IARC? NO
OSHA? NO

ACUTE AND CHRONIC HEALTH HAZARDS

MAY CAUSE EYE OR SKIN IRRITATION.

SIGNS AND SYMPTOMS OF EXPOSURE

EYE OR SKIN IRRITATION.

SECTION VI HEALTH HAZARD DATA is continued on the next page.
SECTION VI  HEALTH HAZARD DATA is continued from the previous page.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION  -  REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION AS NEEDED.

EYES  -  IMMEDIATELY FLUSH WITH WATER CONTINUOUSLY FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION AS NEEDED.

SKIN  -  WASH WITH SOAP & WATER. SEEK MEDICAL ATTENTION AS NEEDED.

INGESTION  -  DO NOT INDUCE VOMITING. CALL A PHYSICIAN & SEEK MEDICAL ATTENTION PROMPTLY. TREAT FOR THE PRESENCE OF INGREDIENT(S) CITED IN SECTION II.

SECTION VII  PRECAUTIONS FOR SAFE HANDLING AND USE

DOT Classification: N/A

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WIPE UP SMALL SPILLS WITH A CLOTH OR TOWEL. FOR LARGER SPILLS, ABSORB LIQUID WITH INERT MATERIAL, SUCH AS SAND OR DRY CLAY ABSORBANT. PREVENT RUN-OFF FROM ENTERING DRAINS OR SEWERS.

WASTE DISPOSAL METHOD

DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

STORE IN COOL, DRY AREA. AVOID FREEZING. KEEP CONTAINER CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS

AVOID PROLONGED CONTACT WITH SKIN.

SECTION VIII  CONTROL MEASURES is continued on the next page.
SECTION VIII  CONTROL MEASURES

**************************************** RESPIRATORY PROTECTION ****************************************

NONE.

**************************************** VENTILATION ****************************************

Local Exhaust:  AS NEEDED.
Special Exhaust:  AS NEEDED.
Mechanical Exhaust:  AS NEEDED.

**************************************** OTHER PROTECTION ****************************************

Gloves:  CHEMICAL RESISTANT RECOMMENDED.
Eye Protection:  CHEMICAL SAFETY GOGGLES RECOMMENDED.

**************************************** CLOTHING ****************************************

PROTECTIVE SLEEVES AND IMPERMEABLE APRON.

**************************************** WORK/HYGIENE PRACTICES ****************************************

AVOID CONTACT WITH SKIN OR EYES. ALWAYS WASH UP BEFORE HANDLING PRODUCT & BEFORE EATING, DRINKING, OR SMOKING.

THIS IS THE END OF THE MSDS Id #A-212