MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NAME: Z-Finisher
FORMULA: MCP-1212E1 (Revised)

Emergency Telephone: (303) 623-5716 (Poison Center); (800) 424-9300 (Chemtrec)

SECTION II - HAZARDOUS INGREDIENTS (TYPICAL VALUES—NOT SPECIFICATIONS)

<table>
<thead>
<tr>
<th>Ingredients/Synonyms</th>
<th>CAS No.</th>
<th>PERCENTAGE</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Thiosulfate</td>
<td>7783-18-8</td>
<td>10 – 15%</td>
<td>---</td>
</tr>
<tr>
<td>Sodium Sulfite</td>
<td>7757-83-7</td>
<td>1 – 5%</td>
<td>---</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>1 – 5%</td>
<td>10ppm</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

BOILING POINT: 212°F
MELTING POINT: ---
VAPOR PRESSURE: ---
VAPOR DENSITY (AIR=1): ---
EVAPORATION RATE (n-butyl acetate=1): ---
VOLATILE FRACTION BY WEIGHT: None
SOLUBILITY IN WATER (BY WEIGHT %): 100%
SPECIFIC GRAVITY (H₂O=1): 1.085
pH: 4.90
APPEARANCE & ODOR: Clear and colorless

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None
FLAMMABLE LIMITS (% BY VOLUME IN AIR): Lel N/A Uel N/A
EXTINGUISHING MEDIA: None
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA

A. THRESHOLD LIMIT VALUE: See Section II

B. EXPOSURE EFFECTS:
   Eye Contact: May cause irritation.
   Skin Contact: May cause irritation.
   Inhalation: Normally no problem.
   Ingestion: May cause irritation of the mucous membranes or digestive tract.

C. FIRST AID
   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.
   Inhalation: Remove to fresh air if one has over-inhalated.
   Ingestion: Obtain immediate medical attention.
SECTION VI - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Contact with strong acids and heat emit highly toxic fumes of sulfur dioxide.
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII - SPILL, LEAK, AND DISPOSAL PROCEDURES

Flush spill with large quantities of water (at least 20:1 dilution) if acceptable to local sewer authority. Otherwise, apply a suitable absorbent material and collect into an impervious container. Disposal should be made through a licensed chemical waste disposal service subject to federal, state, or local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

A. RESPIRATORY PROTECTION: No special equipment required.
B. VENTILATION:
   Local Exhaust: Supply good ventilation.
   Mechanical (General): None
C. SKIN AND EYE PROTECTION: Protective gloves, apron, and eye shields should be used.

SECTION IX - SPECIAL HANDLING AND STORAGE PRECAUTIONS

No special precautions required. Workers should always wear their special protection equipment.

SECTION X - HAZARD MATERIAL TRANSPORTATION

DOT: Non-regulated as a hazard material.

SECTION XI - HAZARD COMMUNICATION

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant
. = Chronic Health Hazard
Flammability
Health
Reactivity
Special

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MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NAME: Z-Starter
FORMULA: MCP-788 (Revised)

Emergency Telephone: (303) 623-5716 (Poison Center); (800) 424-9300 (Chemtrec)

SECTION II - HAZARDOUS INGREDIENTS

(TYPICAL VALUES- NOT SPECIFICATIONS)

<table>
<thead>
<tr>
<th>Ingredients/Synonyme</th>
<th>CAS No.</th>
<th>PERCENTAGE</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>1 - 5%</td>
<td>2mg/m³ Ceiling</td>
</tr>
<tr>
<td>Sodium Sulfite</td>
<td>7757-83-7</td>
<td>1 - 5%</td>
<td>---</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

BOILING POINT: 212°F
MELTING POINT: ---
VAPOR PRESSURE: ---
VAPOR DENSITY (AIR=1): ---
EVAPORATION RATE (n-butyl acetate=1): ---
VOLATILE FRACTION BY WEIGHT: None
SOLUBILITY IN WATER (BY WEIGHT %): 100%
SPECIFIC GRAVITY (H₂O=1): 1.077
pH: ~ 13.50
APPEARANCE & ODOR: Clear and colorless

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None
FLAMMABLE LIMITS (% BY VOLUME IN AIR): LEL N/A UEL N/A
EXTINGUISHING MEDIA: None
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA

A. THRESHOLD LIMIT VALUE: See Section II

B. EXPOSURE EFFECTS:
   - Eye Contact: May cause severe irritation and burning.
   - Skin Contact: May cause severe irritation and burning.
   - Inhalation: Normally no problem.
   - Ingestion: May cause severe irritation or burning of the mucous membranes or digestive tract.

C. FIRST AID
   - Eyes: Immediately flush with plenty of running water for at least 15 minutes. Obtain medical attention.
   - Skin: Flush affected area promptly with water for 15 minutes. Remove contaminated clothing.
   - Inhalation: Remove to fresh air if one has over-inhaled.
   - Ingestion: Obtain immediate medical attention.
SECTION VI - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Strong acids
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII - SPILL, LEAK, AND DISPOSAL PROCEDURES

Flush spill with large quantities of water (at least 20:1 dilution) if acceptable to local sewer authority. Otherwise, apply a suitable absorbent material and collect into an impervious container. Disposal should be made through a licensed chemical waste disposal service subject to federal, state, or local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

A. RESPIRATORY PROTECTION: No special equipment required.
B. VENTILATION: Supply good ventilation.
   Local Exhaust: None
   Mechanical (General):
C. SKIN AND EYE PROTECTION: Protective gloves, apron, and eye shields should be used.

SECTION IX - SPECIAL HANDLING AND STORAGE PRECAUTIONS

No special precautions required. Workers should always wear their special protection equipment.

SECTION X - HAZARD MATERIAL TRANSPORTATION

DOT: Hazard Class: Corrosive Material
   Proper Shipping Name: Corrosive Liquid, N.O.S. UN 1760
   Label: Corrosive

SECTION XI - HAZARD COMMUNICATION

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant
. = Chronic Health Hazard

Flammability
Health
Reactivity
Special

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