

## MATERIAL SAFETY DATA SHEET

### SECTION I - IDENTIFICATION

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

MSDS # 69-1  
 DATE: 4/87  
 DIVISION: GSD-G

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

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

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

### 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 (H<sub>2</sub>O=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-inhaled.  
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:	
<u>Local Exhaust:</u>	Supply good ventilation.
<u>Mechanical (General):</u>	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

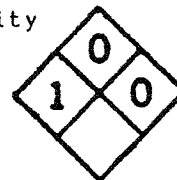
. = Chronic Health Hazard

Flammability

Health

Reactivity

Special



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## MATERIAL SAFETY DATA SHEET

### SECTION I - IDENTIFICATION

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

MSDS # 68-1  
DATE: 4/87  
DIVISION: GSD-G

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

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

<u>Ingredients/Synonyms</u>	<u>CAS No.</u>	<u>PERCENTAGE</u>	<u>TLV (Units)</u>
Sodium Hydroxide	1310-73-2	1 - 5%	2mg/m <sup>3</sup> Ceiling
Sodium Sulfite	7757-83-7	1 - 5%	---

### 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 (H<sub>2</sub>O=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:  
     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

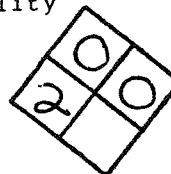
DOT: Hazard Class: Corrosive Material  
 Proper Shipping Name: Corrosive Liquid, N.O.S. UN 1760  
 Label: Corrosive

SECTION XI - HAZARD COMMUNICATION

4 = Extreme  
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 1 = Slight  
 0 = Insignificant  
 . = Chronic Health Hazard

Flammability

Health



Reactivity

Special

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