

# MSDS

# Material Safety Data Sheet

Date prepared: Sep 5, 2015

Date revised: N/A (first edition)

## Section 1 - General Information

**Chemical Name:** Zineb  
**CAS Reg. Number:** 12122-67-7  
**Catalog Number:** 1ST21097  
**Manufacturer's Name:** A Chemtek, Inc.  
100 Barber Avenue  
Worcester, MA 01606, USA  
**Telephone Number:** 508-471-4121  
**Fax Number:** 508-845-9201  
*For R & D use only*

## Section 2 - Hazardous Ingredients/Identity Information

### Classification of the substance or mixture

Acute toxicity, Oral (Category 4), H302  
Skin sensitisation (Category 1), H317  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

### Label elements



Pictogram	
Signal word	Warning
Hazard statement(s)	
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

## Section 3 - Composition/Information on Ingredients

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Formula: C<sub>4</sub>H<sub>6</sub>N<sub>2</sub>S<sub>4</sub>Zn  
Molecular Weight: 275.75 g/mol  
CAS-No. 12122-67-7

## Section 4 - First Aid Measures

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## Section 5 - Fire-Fighting Measures

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

### Personal precautions

Avoid dust formation

### Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: 2 - 8 °C

## Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves

#### Eye protection

Safety glasses

#### Hygiene measures

General industrial hygiene practice

## Section 9 - Physical and Chemical Properties

### Appearance:

Form: Crystalline  
Color: Yellow

### Safety data

pH: not available  
Melting point: not available  
Boiling point: not available  
Flash point: not available  
Ignition temperature: not available

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Lower explosion limit: not available  
Upper explosion limit: not available  
Water solubility: not available

## Section 10 - Stability and Reactivity

**Storage stability** Stable under recommended storage conditions  
**Materials to avoid** Strong oxidizing agents  
**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions.  
- Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxide, Zinc oxide.

## Section 11 - Toxicological Information

### Acute toxicity:

LD50 Oral - Rat - 1,850 mg/kg

Remarks: Behavioral:Excitement. Diarrhoea Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD50 Oral - Rat - female - 8,900 mg/kg

LD50 Dermal - Rat - > 2,500 mg/kg

LD50 Dermal - Rat - > 2,500 mg/kg

No data available

**Irritation and corrosion:** not available

**Sensitization:** not available

**Respiratory or skin sensitization:** not available

**Chronic exposure** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

### Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

## Section 12 - Ecological Information

### Elimination information (persistence and degradability)

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - > 180 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.6 - 1.8 mg/l - 48 h  
not available

**Ecotoxicity effects:** not available

**Further information on ecology:** not available

## Section 13 - Disposal Considerations

**Product** Observe all federal, state, and local environmental regulations.

**Contaminated packaging** Dispose of as unused product.

## Section 14- Transport Information

### DOT (US):

Not dangerous goods

### IMDG:

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zineb)

Marine pollutant:yes

### IATA:

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UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zineb)

## Section 15 - Regulatory Information

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#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Zineb CAS-No. 12122-67-7 Revision Date: 1993-04-24

#### New Jersey Right To Know Components

Zineb CAS-No. 12122-67-7 Revision Date: 1993-04-24

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.