

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/12/2008  
MSDS No: ZN15C  
Date Revised: 11/12/2008  
Revision No: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT CODE:** ZINC PLATING SOLUTION PART A

### MANUFACTURER

Caswell Inc  
7696 Route 31  
Lyons NY 14489  
**Emergency Contact:** Caswell Inc  
**Product Stewardship:** 315 946 1213  
**Transportation:** 800 424 9300  
**Service Number:** 315 946 1213  
Caswell Inc  
7696 Route 31  
Lyons NY 14489  
USA  
**Emergency Contact:** Caswell Inc  
**Emergency Phone:** +1 315 946 1213  
**Service Number:** +1 315 946 1213  
**Transportation Number:** +1 703 527 3887

### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Corrosive. Harmful if swallowed. Affects cardiovascular system.

### POTENTIAL HEALTH EFFECTS

**EYES:** Causes severe eye burns.

**SKIN:** Contact causes severe skin irritation and possible burns.

**INGESTION:** Toxic. May cause irritation or corrosion to the gastrointestinal tract with abdominal pain, nausea and vomiting. May cause delayed death occurring from strictures of the esophagus and pylorus.

**INHALATION:** Destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**CHRONIC EFFECTS:** Repeated skin contact can cause varying degrees of problem ranging from dermatitis to ulcerations. Repeated inhalation can cause occupational asthma.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Zinc Chloride	~ 30 - 50	007646-85-7	- -
Proprietary Non Hazardous Ingredients	~ 50 - 70	Proprietary	Proprietary

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## 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE LIMITS:

**Notes:** NA = Not Applicable

**EXTINGUISHING MEDIA:** Any available.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spills immediately, observing precautions in Protective Equipment section.

## 7. HANDLING AND STORAGE

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield.

**SKIN:** Wear suitable protective clothing.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** liquid (slurry)

**ODOR:** Slight almond odor.

**APPEARANCE:** Brown liquid with white solid slurry.

**pH:** ~ 4

## 10. STABILITY AND REACTIVITY

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**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to decomposition, toxic fumes or chlorine and zinc oxide may be emitted.

**INCOMPATIBLE MATERIALS:** Cyanides and sulfides, powdered zinc.

## 11. TOXICOLOGICAL INFORMATION

## 12. ECOLOGICAL INFORMATION

**Notes:** Dangerous to the environment. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal regulations. Dispose of container and unused contents in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not restricted by DOT

## 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** FORMAT CHANGE

**APPROVED BY:** L CASWELL

**PREPARED BY:** L CASWELL

**REVISION SUMMARY:** Revision #: 1 This MSDS replaces the November 12, 2008 MSDS. Any changes in

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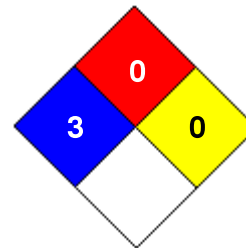
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information are as follows: In Section 4 Firstaid - Eyes Firstaid - Skin Firstaid - Ingestion Firstaid - Inhalation In Section 5 Flammable Limit Extinguishing Media In Section 6 Small Spill In Section 8 Skin Protection Eyes-Face Protection Respiratory Protection In Section 9 Physical State Code Appearance Odor (pH) (Operator) (pH) (From) In Section 10 Stability (Y/N)? Hazardous Polymerization (Y/N)? Hazardous Decomposition Products Incompatible Materials In Section 12 Aquatic Toxicity Note In Section 13 Disposal In Section 14 DOT Proper Shipping Name In Section 15 Fire Pressure Generating Reactivity Accute Chronic TSCA Status In Section 16 HMIS Flammability HMIS Health HMIS Reactivity HMIS Protection NFPA Flammability NFPA Health NFPA Reactivity Manufacturer Disclaimer

## HMIS RATING

<b>HEALTH:</b>	3
<b>FLAMMABILITY:</b>	0
<b>PHYSICAL HAZARD:</b>	0
<b>PERSONAL PROTECTION:</b>	c

## NFPA CODES



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