

## Safety Data Sheet Zincate

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Zincate
Product number	ZINC1L
Brand	Caswell

#### 1.2 Other means of identification

Yellow odorless aqueous solution

#### 1.3 Recommended use of the chemical and restrictions on use

Etch for aluminum.

#### 1.4 Supplier's details

Name	Caswell Inc
Address	7696 Route 31 Lyons, NY 14489 USA
Telephone	315 946 1213
Fax	315 946 4456
email	sales@caswellplating.com

#### 1.5 Emergency phone number(s)

Office Hours (9-4ET): 315 946 1213  
24 Hour: CHEMTEL US# 1-800-255-3924 Intl# +01-813-248-0585

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

- Skin corrosion/irritation (chapter 3.2), Cat. 1A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

#### 2.2 GHS label elements, including precautionary statements

Pictogram

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### Signal word

**Danger**

### Hazard statement(s)

H314  
H400  
H410

Causes severe skin burns and eye damage  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

### Precautionary statement(s)

P260  
P264  
P280  
P301+P330+P331  
P303+P361+P353  
  
P363  
P304+P340  
P310  
P321  
P305+P351+P338  
  
P405  
P501  
P273  
P391

Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash ... thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/...  
Specific treatment (see ... on this label).  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
Store locked up.  
Dispose of contents/container to ...  
Avoid release to the environment.  
Collect spillage.

### 2.3 Other hazards which do not result in classification

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. Sodium hydroxide liquid

Concentration 65 % (Weight)

Other names / synonyms caustic soda; SODIUM HYDROXIDE; Sodium hydroxide (Na(OH));  
EC no. 215-185-5  
CAS no. 1310-73-2  
Index no. 011-002-00-6

- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H314 Causes severe skin burns and eye damage

##### 2. Zinc oxide

Concentration < 10 % (Weight)

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Other names / synonyms	C.I. 77947; C.I. Pigment White 4; Chinese white; Zinc oxide (ZnO); Zinc white
EC no.	215-222-5
CAS no.	1314-13-2
Index no.	030-013-00-7

- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

### 3. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration	>= 25 %
CAS no.	7732-18-5

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Corrosive. Contact will cause eye burns and permanent tissue damage.
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. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed	Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil,. Do not induce vomiting. Contact physician immediately.
Personal protective equipment for first-aid responders	Wear chemical resistant clothing.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear all PPE listed in this SDS. Avoid runoff into sewer. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid all contact. Wear all PPE listed in this MSDS.

#### 7.2 Conditions for safe storage, including any incompatibilities

Avoid acids and other materials that react with Sodium Hydroxide.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 1. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): 2 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 2. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): (C) 2 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 3. Sodium hydroxide (CAS: 1310-73-2)

REL (Inhalation): (C) 2 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 4. Zinc oxide fume (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 5. Zinc oxide fume (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 6. Zinc oxide fume (CAS: 1314-13-2)

REL (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 7. Zinc oxide (CAS: 1314-13-2)

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 8. Zinc oxide, Total dust (CAS: 1314-13-2)

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 9. Zinc oxide, Total dust (CAS: 1314-13-2)

PEL (Inhalation): 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 10. Zinc oxide, Total dust (CAS: 1314-13-2)

REL (Inhalation): 5 mg/m<sup>3</sup>, (C) 15 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 11. Zinc oxide, Respirable fraction (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 12. Zinc oxide, Respirable fraction (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

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### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body protection

Wear chemical resistant clothing

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Yellow liquid
Odor	None
Odor threshold	
pH	13.5-15.5
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Upper/lower explosive limits	
Vapor pressure	
Vapor density	
Relative density	1.425 to 1.465
Solubility(ies)	
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

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## SECTION 10: Stability and reactivity

### 10.2 Chemical stability

Stable

### 10.5 Incompatible materials

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Acids. Materials that react with Sodium Hydroxide

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### SECTION 11: Toxicological information

#### Information on toxicological effects

**Acute toxicity**  
Not established

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### SECTION 12: Ecological information

**Toxicity**  
Not established

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### SECTION 13: Disposal considerations

**Disposal of the product**  
Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

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### SECTION 14: Transport information

#### DOT (US)

UN Number: UN3264  
Class: 8  
Packing Group: II  
Proper Shipping Name: Corrosive liquid, acidic, inorganic, nos (Sodium Hydroxide)  
Reportable quantity (RQ):  
Marine pollutant:  
Poison inhalation hazard:  
Amounts under 1 liter may be shipped as LTD QTY by surface

#### IMDG

UN Number: UN3264  
Class: 8  
Packing Group: ii  
EMS Number:  
Proper Shipping Name: Corrosive liquid, acidic, inorganic, nos (Sodium Hydroxide)

#### IATA

UN Number: UN3264  
Class: 8  
Packing Group: II  
Proper Shipping Name: Corrosive liquid, acidic, inorganic, nos (Sodium Hydroxide)

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

**Massachusetts Right To Know Components**  
Chemical name: Sodium hydroxide

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CAS number: 1310-73-2

### New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE

CAS number: 1310-73-2

### Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

### Massachusetts Right To Know Components

Chemical name: Zinc oxide

CAS number: 1314-13-2

### New Jersey Right To Know Components

Common name: ZINC OXIDE

CAS number: 1314-13-2

### Pennsylvania Right To Know Components

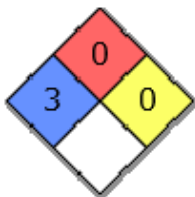
Chemical name: Zinc oxide

CAS number: 1314-13-2

### HMIS Rating

Zincate	
HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Caswell Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Caswell Inc has been advised of the possibility of such damages.