



CASWELL INC

## Safety Data Sheet Anodize & Chrome Stripper

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Anodize & Chrome Stripper
Product number	ANSTP
Brand	Caswell

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

Metal Finishing Product

#### 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

- Acute toxicity, oral (chapter 3.1), Cat. 4
- Eye damage/irritation (chapter 3.3), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1A
- Corrosive to metals (chapter 2.16), Cat. 1

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

Pictogram

# Safety Data Sheet

## Anodize & Chrome Stripper



### Signal word

**Danger**

### Hazard statement(s)

H302 Harmful if swallowed  
H318 Causes serious eye damage  
H314 Causes severe skin burns and eye damage  
H290 May be corrosive to metals

### Precautionary statement(s)

P264 Wash ... thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell, Rinse mouth.  
P330 Rinse mouth.  
P501 Dispose of contents/container to ...  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310 Immediately call a POISON CENTER/doctor/...  
P321 Specific treatment (see ... on this label).  
P405 Store locked up.  
P234 Keep only in original container.  
P390 Absorb spillage to prevent material damage.  
P406 Store in a corrosive resistant/... container with a resistant inner liner.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Hazardous components

##### 1. Sodium hydroxide solid or pellets

Concentration < 80 %  
EC no. 215-185-5  
CAS no. 1310-73-2  
Index no. 011-002-00-6

##### 2. Proprietary Additives

Concentration 20 %

#### Trade secret statement (OSHA 1910.1200(i))

# Safety Data Sheet

## Anodize & Chrome Stripper

Specific Non Hazardous and Non Reportable Chemical Compounds Have Been Omitted As a Trade Secret under OSHA 1910.1200(i)

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### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

General advice	POISON. May be fatal if swallowed. Causes severe respiratory tract, eye and skin burns.
If inhaled	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
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.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Personal protective equipment for first-aid responders	See section 8

#### 4.2 Most important symptoms/effects, acute and delayed

not available

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### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

As required for surrounding fire

#### 5.2 Specific hazards arising from the chemical

Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc

#### 5.3 Special protective actions for fire-fighters

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

See section 8 for PPE

#### 6.2 Environmental precautions

not available

#### 6.3 Methods and materials for containment and cleaning up

Sweep up powder and store away in plastic, away from incompatible materials for disposal. If in liquid form, dyke spill and absorb with kitty litter or other absorbent, then sweep up and store in plastic for future disposal.

# Safety Data Sheet

## Anodize & Chrome Stripper

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Consult SDS before use. Wear PPE.

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

Store in plastic, at room temperature, away from incompatible materials.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 1. Sodium hydroxide solid or pellets (CAS: 1310-73-2 EC: 215-185-5)

STEL: Ceiling 2

#### 8.2 Appropriate engineering controls

Follow general procedures for handling corrosive materials. Strong Base. Keep away from acids.

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

##### Pictograms



##### Eye/face protection

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

##### Skin protection

Wear chemical resistant gloves and clothing.

##### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)

Hydroscopic White Powder

Odor

Mild

Odor threshold

Not Available

pH

13

# Safety Data Sheet

## Anodize & Chrome Stripper

Melting point/freezing point	605°F
Initial boiling point and boiling range	2534°F
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability limits	Not Available
Upper/lower explosive limits	Not Available
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	2.130
Solubility(ies)	Complete In Water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available
Explosive properties	Not Available
Oxidizing properties	Not Available

### Other safety information

Product does not contain Volatile Organic Compounds

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Contact with moisture may generate enough heat to ignite surrounding combustible materials.

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

Not Available

### 10.4 Conditions to avoid

Contact with incompatible materials.

### 10.5 Incompatible materials

Water, acids, chlorinated hydrocarbons, metals and organic materials.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

EYES: 50 mg/24H

DERMAL LD50: 500 mg/kg (rabbit)

#### Skin corrosion/irritation

Highly Corrosive To Skin

#### Serious eye damage/irritation

# Safety Data Sheet

## Anodize & Chrome Stripper

Highly Corrosive To Eyes

### **Respiratory or skin sensitization**

Not Available

### **Germ cell mutagenicity**

Not Available

### **Carcinogenicity**

Not Available

### **Reproductive toxicity**

Not Available

### **STOT-single exposure**

Not Available

### **STOT-repeated exposure**

Not Available

### **Aspiration hazard**

Not Available

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## SECTION 12: Ecological information

### **Toxicity**

Not Available

### **Persistence and degradability**

Not Available

### **Bioaccumulative potential**

Not Available

### **Mobility in soil**

Not Available

### **Results of PBT and vPvB assessment**

Not Available

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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.

### **Disposal of contaminated packaging**

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

### **Waste treatment**

Not Available

# Safety Data Sheet

## Anodize & Chrome Stripper

**Sewage disposal**  
Not Available

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### SECTION 14: Transport information

#### DOT (US)

UN Number: UN1823  
Class: 8  
Packing Group: II  
Proper Shipping Name: Sodium Hydroxide, Solid  
Reportable quantity (RQ):  
Marine pollutant:  
Poison inhalation hazard:

#### IMDG

UN Number: UN1823  
Class: 8  
Packing Group: II  
EMS Number:  
Proper Shipping Name: Sodium Hydroxide, Solid

#### IATA

UN Number: UN1823  
Class: 8  
Packing Group: II  
Proper Shipping Name: Sodium Hydroxide, Solid

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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  
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

#### HMIS Rating

Anodize & Chrome Stripper	
HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	2
PERSONAL PROTECTION	F

# Safety Data Sheet

## Anodize & Chrome Stripper

### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

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CASWELL INC

## Safety Data Sheet Deoxidizer/Desmut

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Deoxidizer/Desmut
Product number	ALDEOX
Brand	Caswell

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

Metal Etch

#### 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 Int# +01-813-248-0585

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

- Acute toxicity, oral (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 1

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

Pictogram



# Safety Data Sheet

## Deoxidizer/Desmut

### Signal word

### Danger

#### Hazard statement(s)

H302  
H314  
H318

Harmful if swallowed  
Causes severe skin burns and eye damage  
Causes serious eye damage

#### Precautionary statement(s)

P264  
P270  
P301+P312  
P330  
P501  
P260  
P280  
P301+P330+P331  
P303+P361+P353  
  
P363  
P304+P340  
P310  
P321  
P305+P351+P338  
  
P405

Wash ... thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,  
Rinse mouth.  
Dispose of contents/container to ...  
Do not breathe dust/fume/gas/mist/vapours/spray.  
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.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Hazardous components

##### 1. Sulfuric acid (90-98 %)

Concentration	18 %
EC no.	231-639-5
CAS no.	7664-93-9
Index no.	016-020-00-8

##### 2. Sodium nitrate

Concentration	6 %
CAS no.	7631-99-4

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

Concentration	76 %
CAS no.	7732-18-5

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Avoid all contact. Consult a physician if exposed.
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## Safety Data Sheet Deoxidizer/Desmut

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Personal protective equipment for first-aid responders	See section 8

### 4.2 Most important symptoms/effects, acute and delayed Not Available

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## SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media**  
Use extinguishing media appropriate for surrounding fire.
- 5.2 Specific hazards arising from the chemical**  
Not available
- 5.3 Special protective actions for fire-fighters**  
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**  
See section 8 for PPE.
- 6.2 Environmental precautions**  
See section 12 for Environmental Information
- 6.3 Methods and materials for containment and cleaning up**  
SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

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## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Incompatible with strong acids and bases.

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## SECTION 8: Exposure controls/personal protection

# Safety Data Sheet

## Deoxidizer/Desmut

### 8.1 Control parameters

#### 1. Sulfuric acid (CAS: 7664-93-9)

PEL (Inhalation): 1 mg/m<sup>3</sup> (OSHA)

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

#### 2. Sulfuric acid (CAS: 7664-93-9)

PEL (Inhalation): 0.1 mg/m<sup>3</sup>, (ST) 3 mg/m<sup>3</sup> (Cal/OSHA)

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

#### 3. Sulfuric acid (CAS: 7664-93-9)

REL (Inhalation): 1 mg/m<sup>3</sup> (NIOSH)

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

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

#### Pictograms



#### Eye/face protection

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

#### Skin protection

Wear chemical resistant gloves and clothing.

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

#### Thermal hazards

None Known

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)

Light Brown Liquid

Odor

No information Available

Odor threshold

No information Available

pH

1.0

Melting point/freezing point

No information Available

Initial boiling point and boiling range

152 deg F

# Safety Data Sheet

## Deoxidizer/Desmut

Flash point	> 300 deg F
Evaporation rate	No information Available
Flammability (solid, gas)	No information Available
Upper/lower flammability limits	No information Available
Upper/lower explosive limits	No information Available
Vapor pressure	No information Available
Vapor density	No information Available
Relative density	1.4269
Solubility(ies)	No information Available
Partition coefficient: n-octanol/water	No information Available
Auto-ignition temperature	No information Available
Decomposition temperature	No information Available
Viscosity	No information Available
Explosive properties	No information Available
Oxidizing properties	No information Available

### Other safety information

Product does not contain Volatile Organic Compounds

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information Available

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

None

### 10.4 Conditions to avoid

Temperature Extremes. Direct Sunlight

### 10.5 Incompatible materials

Strong Acids and Bases

### 10.6 Hazardous decomposition products

Carbon Oxides. Steam. Hydrocarbons.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Sulfuric Acid: 510mg/m<sup>3</sup> (Rat) 2h

Sodium Nitrate: 1267 mg/kg (Rat)

#### Skin corrosion/irritation

Irritating To Skin

#### Serious eye damage/irritation

Corrosive to eyes

#### Respiratory or skin sensitization

# Safety Data Sheet

## Deoxidizer/Desmut

Harmful by inhalation

### **Germ cell mutagenicity**

No information Available

### **Carcinogenicity**

Sulfuric Acid: Group 1 IARC

Sodium Nitrate: Group 2A IARC

### **Reproductive toxicity**

No information Available

### **STOT-single exposure**

No information Available

### **STOT-repeated exposure**

No information Available

### **Aspiration hazard**

No information Available

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## **SECTION 12: Ecological information**

### **Toxicity**

Sulfuric Acid: 500: 96h LC50 Static (fish)

Sodium Nitrate: 2000 96h LC50 (fish)

### **Persistence and degradability**

No information Available

### **Bioaccumulative potential**

No information Available

### **Mobility in soil**

No information Available

### **Results of PBT and vPvB assessment**

No information Available

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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.

### **Disposal of contaminated packaging**

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

### **Waste treatment**

No information available

### **Sewage disposal**

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

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## **SECTION 14: Transport information**

# Safety Data Sheet

## Deoxidizer/Desmut

### DOT (US)

UN Number: UN3264

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquid, acidic, inorganic NOS (Sulfuric Acid Solution)

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

### IMDG

UN Number: UN3264

Class: 8

Packing Group: II

EMS Number:

Proper Shipping Name: Corrosive liquid, acidic, inorganic NOS (Sulfuric Acid Solution)

### IATA

UN Number: UN3264

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquid, acidic, inorganic NOS (Sulfuric Acid Solution)

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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: Sulfuric acid

CAS number: 7664-93-9

#### New Jersey Right To Know Components

Common name: SULFURIC ACID

CAS number: 7664-93-9

#### Pennsylvania Right To Know Components

Chemical name: Sulfuric acid

CAS number: 7664-93-9

#### California Prop. 65 components

Chemical name: Sulfuric acid (90-98 %)

CAS number: 7664-93-9

03/14/2003 - Cancer

#### Pennsylvania Right To Know Components

Chemical name: Nitric acid, sodium salt

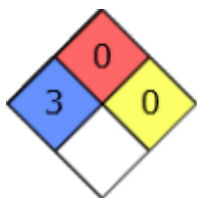
CAS number: 7631-99-4

### HMIS Rating

Deoxidizer/Desmut	
HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	D

# Safety Data Sheet Deoxidizer/Desmut

## 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.





CASWELL INC

## Safety Data Sheet Aluminum Degreaser

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Aluminum Degreaser
Product number	ALDG
Brand	Caswell

#### 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

- Toxic to reproduction (chapter 3.7), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2
- Acute toxicity, oral (chapter 3.1), Cat. 5

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

Pictogram



# Safety Data Sheet

## Aluminum Degreaser

### Signal word

### Warning

### Hazard statement(s)

H361  
H319  
H303

Suspected of damaging fertility or the unborn child  
Causes serious eye irritation  
May be harmful if swallowed

### Precautionary statement(s)

P201  
P202  
P280  
P308+P313  
P405  
P501  
P264  
P305+P351+P338  
  
P337+P313  
P312

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container to ...  
Wash ... thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Call a POISON CENTER/doctor/... if you feel unwell.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Hazardous components

##### 1. Sodium Tetraborate Decahydrate

Concentration 40 - 50 %  
CAS no. 1303-96-4

##### 2. OTHER NON-REPORTABLE INGREDIENTS

Concentration 40 - 50 %

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

#### General advice

Observation only is required for adult ingestion of less than 7 grams of borax decahydrate. For ingestion in excess of 7 grams, maintain adequate kidney function and force fluids.  
Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment (see section 11).

#### If inhaled

If symptoms such as nose or throat irritation are observed, remove person to fresh air. If not

# Safety Data Sheet

## Aluminum Degreaser

	breathing, give artificial respiration. Seek medical attention.
In case of skin contact	Wash with soap and water. Seek medical attention.
In case of eye contact	As with any chemical exposure to the eye, flush eyes with water for at least 20-minutes. Seek medical attention.
If swallowed	If large amounts are swallowed (i.e. more than one teaspoon), give two glasses of water or milk to drink and seek medical attention. Never give anything by mouth to an unconscious person.

---

### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Use fire extinguishing media suitable for surrounding fires.

#### 5.2 Specific hazards arising from the chemical

None – Borax is non-flammable, combustible or explosive. The product is itself a flame retardant.

#### 5.3 Special protective actions for fire-fighters

Firefighters should wear pressure demand, self-contained breathing apparatus and full turn-out gear.

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### SECTION 6: Accidental release measures

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

Avoid dust formation. In case of exposure to prolonged or high level of airborne dust, wear a personal respirator in compliance with national legislation.

#### 6.2 Environmental precautions

Borax decahydrate is a water-soluble white powder that may, at high concentrations cause damage to trees or vegetation by root absorption (see section 12)

#### 6.3 Methods and materials for containment and cleaning up

Land spill : Vacuum, shovel or sweep up borax and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. No personal protective equipment is needed to clean up land spills.

Spillage into water : Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level (see sections 12, 13 and 15).

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

To maintain package integrity and to minimize caking of the product, bags should be handled on a first-in first out basis. Good housekeeping and dust prevention procedures should be followed to

# Safety Data Sheet

## Aluminum Degreaser

minimize dust generation and accumulation. Your supplier can advise you on safe handling, please contact the supplier. The product should be kept away from strong reducing agents. Apply above handling advice when mixing with other substances.

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

Keep containers closed and store indoors in a dry well ventilated location.  
Provide appropriate ventilation and store bags such as to prevent any accidental damage.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. Sodium Tetraborate Decahydrate (CAS: 1303-96-4)

TLV®: 5 (ACGIH)

### 8.2 Appropriate engineering controls

Maintain air concentrations below occupational exposure standards.  
Ventilation / Local Exhaust / Mechanical Recommendations: Use local exhaust ventilation

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

#### Pictograms



#### Eye/face protection

Goggles or face shield.

#### Skin protection

Vinyl or rubber protective gloves.

#### Body protection

Vinyl apron (optional).

#### 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 (physical state, color, etc.)	White granular powder
Odor	None
Odor threshold	NA
pH	9 - 10

# Safety Data Sheet

## Aluminum Degreaser

Melting point/freezing point	NA
Initial boiling point and boiling range	NA
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	NA
Upper/lower flammability limits	NA
Vapor pressure	NA
Vapor density	
Relative density	NA
Solubility(ies)	Complete in water
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	NA
Oxidizing properties	NA

### Other safety information

Product does not contain Volatile Organic Compounds

---

## SECTION 10: Stability and reactivity

### 10.2 Chemical stability

Borax decahydrate is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. When heated it loses water, eventually forming anhydrous borax ( $\text{Na}_2\text{B}_4\text{O}_7$ ).

### 10.4 Conditions to avoid

Exposure to moisture and incompatible materials.

### 10.5 Incompatible materials

Avoid contact with strong reducing agents such as metal hydrides, acetic anhydride or alkali metals. Reaction with strong reducing agents such as metal hydrides, acetic anhydride or alkali metals will generate flammable hydrogen gas which could create an explosive hazard.

### 10.6 Hazardous decomposition products

Boranes, hydrogen, boron oxides.

---

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Low acute oral toxicity; LD50 in rats is 6,000 mg/kg of body weight.

#### Skin corrosion/irritation

Low acute dermal toxicity; LD50 in rabbits is greater than 2,000 mg/kg of body weight. Borax decahydrate is poorly absorbed through intact skin. Non-irritant.

# Safety Data Sheet

## Aluminum Degreaser

### Serious eye damage/irritation

Borax decahydrate is a serious eye irritant.

### Respiratory or skin sensitization

Borax is not a skin sensitizer.

### Germ cell mutagenicity

This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

### Reproductive toxicity

Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes (2). Studies with chemically related boric acid in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those which humans would normally be exposed to. Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust and sodium borate dust. A recent epidemiology study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

---

## SECTION 12: Ecological information

### Toxicity

Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimize the amount of borate product released to the environment.

Algal toxicity : Green algae, *Pseudokirchneriella subcapitata* (Hansveit and Oldersma, 2000)

72-hr EC50 –biomass = 40 mg B/L, or 229 mg boric acid/L.

Invertebrate toxicity : *Daphnia*, *Daphnids*, *Daphnia magna* (Gersich, 1984a)

48-hr LC50 = 133 mg B/L or 760 mg boric acid/L or 619 mg disodium tetraborate , anhydrous/L

Fish toxicity : Fish, *Fathered minnow*, *Pimephales promelas* (Soucek et al., 2010)

96-hr LC50 = 79.7 mg B/L or 456 mg boric acid/L or 370 mg disodium tetraborate, anhydrous

---

## SECTION 13: Disposal considerations

### Disposal of the product

Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

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## SECTION 14: Transport information

# Safety Data Sheet

## Aluminum Degreaser

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

---

## SECTION 15: Regulatory information

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

#### Pennsylvania Right To Know Components

Chemical name: Borax

CAS number: 1303-96-4

#### Toxic Substances Control Act (TSCA) Inventory

Chemical name: Borax

CAS number: 1303-96-4

#### HMIS Rating

Aluminum Degreaser	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

#### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

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CASWELL INC

## Safety Data Sheet Anodize Sealer

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Anodize Sealer
Product number	ALSE
Brand	Caswell

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

Anodizing Sealer

#### 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 Int# +01-813-248-0585

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

- Acute toxicity, oral (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 3

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

Pictogram



# Safety Data Sheet

## Anodize Sealer



### Signal word

### Warning

#### Hazard statement(s)

H302  
H315  
H319  
H402  
H412

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
Harmful to aquatic life  
Harmful to aquatic life with long lasting effects

#### Precautionary statement(s)

P264  
P270  
P301+P312  
P330  
P501  
P280  
P302+P352  
P321  
P332+P313  
P362+P364  
P305+P351+P338

Wash ... thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,  
Rinse mouth.  
Dispose of contents/container to ...  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water/...  
Specific treatment (see ... on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove  
contact lenses if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Avoid release to the environment.

P337+P313  
P273

---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Other names / synonyms                      Nickel (II) acetate Tetrahydrate

#### Hazardous components

##### 1. Nickel (II) acetate Tetrahydrate

Concentration                                      100 %  
CAS no.    6018-89-9

---

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice                                      Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled    Do NOT induce vomiting. Never give anything by mouth to an unconscious  
person. Rinse mouth with water. Consult a physician.

In case of skin contact                              Rinse with plenty of water. Get medical attention if irritation develops and  
persists.

# Safety Data Sheet

## Anodize Sealer

In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Personal protective equipment for first-aid responders	Refer to Section 8

### 4.2 Most important symptoms/effects, acute and delayed

Nickel Compounds may cause allergic rash (dermatitis)

---

## SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.3 Special protective actions for fire-fighters**  
Wear self-contained breathing apparatus for firefighting if necessary.

---

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Refer to Section 8 for PPE.
- 6.2 Environmental precautions**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 Methods and materials for containment and cleaning up**  
Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

---

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Keep container tightly closed in a dry and well-ventilated place.

---

## SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters**
- 1. Nickel (II) acetate Tetrahydrate (CAS: 6018-89-9)**  
TWA: 1 mg/m<sup>3</sup> (OSHA)
- 8.2 Appropriate engineering controls**  
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- 8.3 Individual protection measures, such as personal protective equipment (PPE)**

### Pictograms



# Safety Data Sheet

## Anodize Sealer

### Eye/face protection

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

### Skin protection

Wear chemical resistant gloves and clothing.

### Body protection

Wear chemical resistant gloves and clothing.

### Respiratory protection

NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

---

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Bright Green Crystals
Odor	No Data Available
Odor threshold	Slightly Acetic
pH	No Data Available
Melting point/freezing point	No Data Available
Initial boiling point and boiling range	220 deg F
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability (solid, gas)	No Data Available
Upper/lower flammability limits	
Vapor pressure	No Data Available
Vapor density	No Data Available
Relative density	1.744
Solubility(ies)	Complete In Water
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidizing properties	No Data Available

### Other safety information

Product does not contain Volatile Organic Compounds

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not reactive

### 10.2 Chemical stability

State

### 10.3 Possibility of hazardous reactions

No Data Available

# Safety Data Sheet

## Anodize Sealer

### 10.4 Conditions to avoid

No Data Available

### 10.5 Incompatible materials

No Data Available

### 10.6 Hazardous decomposition products

Sulphur Oxides, Nickel, nickel oxides

---

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Oral LD50: 350 mg/kg (rat)

#### Skin corrosion/irritation

No Data Available

#### Serious eye damage/irritation

No Data Available

#### Respiratory or skin sensitization

No Data Available

#### Germ cell mutagenicity

No Data Available

#### Carcinogenicity

IARC: Group 1 Carcinogenic To Humans

#### Reproductive toxicity

No Data Available

#### STOT-single exposure

No Data Available

#### STOT-repeated exposure

No Data Available

#### Aspiration hazard

No Data Available

#### Additional information

Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhoea. Prolonged or repeated skin exposure can cause "nickel itch" dermatitis.

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## SECTION 12: Ecological information

### Toxicity

No Data Available

### Persistence and degradability

No Data Available

# Safety Data Sheet

## Anodize Sealer

### Bioaccumulative potential

No Data Available

### Mobility in soil

No Data Available

### Results of PBT and vPvB assessment

No Data Available

### Other adverse effects

Very toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### Disposal of the product

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

### Disposal of contaminated packaging

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

---

## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

---

## SECTION 15: Regulatory information

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

#### New Jersey Right To Know Components

Common name: NICKEL ACETATE TETRAHYDRATE

CAS number: 6018-89-9

#### California Prop. 65 components

Chemical name: Nickel (II) acetate Tetrahydrate

CAS number: 6018-89-9

10/01/1989 - Cancer

### HMIS Rating

Anodize Sealer	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

### NFPA Rating

# Safety Data Sheet

## Anodize Sealer



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### SECTION 16: Other information

#### 16.1 Further information/disclaimer

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