



CASWELL INC

Safety Data Sheet Aluminum Degreaser

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

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.

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 %

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

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	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.

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).

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.

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).

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

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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.

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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, Fathead 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.

SECTION 14: Transport information

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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



SECTION 16: Other information

16.1 Further information/disclaimer

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CASWELL INC

Safety Data Sheet Anodize Sealer

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

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.

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.

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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/m³ (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

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.

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



SECTION 16: Other information

16.1 Further information/disclaimer

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CASWELL INC

Safety Data Sheet Anodize Fume Suppressant

SECTION 1: Identification

1.1 Product identifier

Product name	Anodize Fume Suppressant
Product number	ANFUM
Brand	Caswell

1.3 Recommended use of the chemical and restrictions on use

Anodizing Additive

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

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

Safety Data Sheet

Anodize Fume Suppressant

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration 100 %
CAS no. 7732-18-5

Trade secret statement (OSHA 1910.1200(i))

Specific chemical identities and/or exact percentages have been withheld as a trade secret in accordance with OSHA 1910.1200(i)

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	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Skin Protection: None required with normal household use. Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.
In case of eye contact	Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye protection.
If swallowed	Drink water and induce vomiting.
Personal protective equipment for first-aid responders	None required

4.2 Most important symptoms/effects, acute and delayed

Product is not hazardous. No negative effects from exposure should be expected.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Any available

5.2 Specific hazards arising from the chemical

None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Product is not hazardous. Clean up using available means.

6.2 Environmental precautions

Safety Data Sheet

Anodize Fume Suppressant

None

6.3 Methods and materials for containment and cleaning up

Any

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

SECTION 8: Exposure controls/personal protection

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

Pictograms



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

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear Liquid
Odor	None
Odor threshold	Not Established
pH	Not Established
Melting point/freezing point	Not Established
Initial boiling point and boiling range	212 deg F
Flash point	Not Flammable
Evaporation rate	Not Established
Flammability (solid, gas)	None
Upper/lower flammability limits	Not Established
Vapor pressure	Not Established
Vapor density	Not Established
Relative density	1.0192
Solubility(ies)	Fully In Water
Partition coefficient: n-octanol/water	Not Established
Auto-ignition temperature	n/a
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

Safety Data Sheet

Anodize Fume Suppressant

Other safety information

Product does not contain Volatile Organic Compounds

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

None Known

10.4 Conditions to avoid

None Known

10.5 Incompatible materials

None Known

10.6 Hazardous decomposition products

None Known

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not Established

Skin corrosion/irritation

Not Established

Serious eye damage/irritation

Not Established

Respiratory or skin sensitization

Not Established

Germ cell mutagenicity

Not Established

Carcinogenicity

Not Established

Reproductive toxicity

Not Established

STOT-single exposure

Not Established

STOT-repeated exposure

Not Established

Safety Data Sheet

Anodize Fume Suppressant

Aspiration hazard
Not Established

SECTION 12: Ecological information

Toxicity
Not Established

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

HMIS Rating

Anodize Fume Suppressant	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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Safety Data Sheet

Anodize Fume Suppressant

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CASWELL INC

Safety Data Sheet Deoxidizer/Desmut

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

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.

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

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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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

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.

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.

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.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

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

PEL (Inhalation): 1 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 0.1 mg/m³, (ST) 3 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

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

REL (Inhalation): 1 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, 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

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

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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

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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Sulfuric Acid: 510mg/m³ (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

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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

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

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.

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)

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

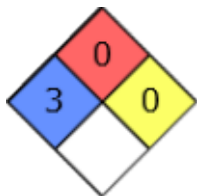
CAS number: 7631-99-4

HMIS Rating

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

Safety Data Sheet Deoxidizer/Desmut

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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