



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.

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/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 & Chrome Stripper

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

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.

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)

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

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.

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

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.

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.

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

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.

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

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

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

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

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

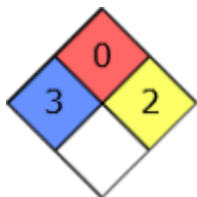
HMIS Rating

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

Safety Data Sheet

Anodize & Chrome Stripper

NFPA Rating



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

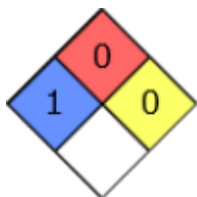
IATA
Not dangerous goods

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

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 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.

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

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

Safety Data Sheet

Deoxidizer/Desmut

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

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

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

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

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

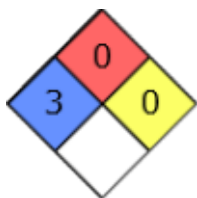
CAS number: 7631-99-4

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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