CASWELL INC

Safety Data Sheet
Aluminum Brightener

SECTION 1: Identification

1.1 Product identifier

Product name	Aluminum Brightener
Product number	ALBR
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

- Acute toxicity, inhalation (chapter 3.1), Cat. 2
- Acute toxicity, dermal (chapter 3.1), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word **Danger**

Hazard statement(s)

H330	Fatal if inhaled
H310	Fatal in contact with skin

H314	Causes severe skin burns and eye damage

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor/...
P320	Specific treatment is urgent (see … on this label).
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to …
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash … thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P321	Specific treatment (see … on this label).
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Phosphoric acid liquid

Concentration	< 10 %
EC no.	231-633-2
CAS no.	7664-38-2
Index no.	015-011-00-6

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

H314	Causes severe skin burns and eye damage

2. HYDROFLUORIC ACID

Concentration	< 15 %
EC no.	231-634-8
CAS no.	7664-39-3
Index no.	009-003-00-1

- Acute toxicity (chapter 3.1), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H300	Fatal if swallowed

H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H330	Fatal if inhaled

Trade secret statement (OSHA 1910.1200(i))
Specfic Non Hazardous and Non Reportabale Chemical Compounds and Percentages 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	Corrosive to skin and mucous membranes.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
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
Dry chemical, foam, carbon dioxide, water fog.

5.2 Specific hazards arising from the chemical
Contact with some metals, particularly magnesium, aluminum and zinc (galvanized) can rapidly generate hydrogen, which can be explosive.

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
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.

6.2 Environmental precautions

Toxic To Aquatic Life. Avoid release to environment.

6.3 Methods and materials for containment and cleaning up
Do not allow to enter drains or water source.

SECTION 7: Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities
not available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Phosphoric acid (CAS: 7664-38-2)
PEL (Inhalation): 1 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

2. Phosphoric acid (CAS: 7664-38-2)
PEL (Inhalation): 1 mg/m3, (ST) 3 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Phosphoric acid (CAS: 7664-38-2)
REL (Inhalation): 1 mg/m3, (ST) 3 mg/m3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls
Avoid exposure.

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

Pictograms

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

Skin protection
Wear chemical resistant gloves and clothing.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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.)	Clear Liquid
Odor	Acidic
Odor threshold	not available
pH	<2
Melting point/freezing point	not available
Initial boiling point and boiling range	220 deg F
Flash point	None
Evaporation rate	not available
Flammability (solid, gas)	not available
Upper/lower flammability limits	not available
Upper/lower explosive limits	not available
Vapor pressure	not available
Vapor density	not available
Relative density	1.06
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	
Oxidizing properties	

SECTION 10: Stability and reactivity

10.1 Reactivity
Not Reactive

10.2 Chemical stability
Material is Stable

10.3 Possibility of hazardous reactions
None

10.4 Conditions to avoid
None

10.5 Incompatible materials
Strong Acids

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
None

Reproductive toxicity
Not established

STOT-single exposure
Not established

STOT-repeated exposure
Not established

Aspiration hazard
Not established

SECTION 12: Ecological information

Toxicity
Harmful to aquatic life.

Persistence and degradability
Not established

Bioaccumulative potential
Not established

Mobility in soil
Not established

Results of PBT and vPvB assessment
Not established

SECTION 13: Disposal considerations

Disposal of the product
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.

Disposal of contaminated packaging
Dispose of as unused product.

Waste treatment
Not established

Sewage disposal
Not established

SECTION 14: Transport information

DOT (US)
UN Number: UN1760
Class: 8
Packing Group: II
Proper Shipping Name: Corrosive liquid, NOS (Hydroflouric Acid, Phosphoric Acid)
Reportable quantity (RQ):
Marine pollutant:
Poison inhalation hazard:
Small Quantities may be shipped as LTD QTY.

IMDG
UN Number: UN1760
Class: 8
Packing Group: II
EMS Number:
Proper Shipping Name: Corrosive liquid, NOS (Hydroflouric Acid, Phosphoric Acid)

IATA
UN Number: UN1760
Class: 8
Packing Group: II
Proper Shipping Name: Corrosive liquid, NOS (Hydroflouric Acid, Phosphoric Acid)

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components
Chemical name: Phosphoric acid
CAS number: 7664-38-2

New Jersey Right To Know Components
Common name: PHOSPHORIC ACID
CAS number: 7664-38-2

Massachusetts Right To Know Components
Chemical name: Hydrofluoric acid
CAS number: 7664-39-3

New Jersey Right To Know Components
Common name: HYDROGEN FLUORIDE
CAS number: 7664-39-3

Pennsylvania Right To Know Components
Chemical name: Hydrofluoric acid
CAS number: 7664-39-3

HMIS Rating

Aluminum Brightener	
HEALTH	* 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

NFPA Rating

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.