



CASWELL INC

Safety Data Sheet Zinc Blackener A360

SECTION 1: Identification

1.1 Product identifier

Product name	Zinc Blackener A360
Product number	A360
Brand	Caswell

1.3 Recommended use of the chemical and restrictions on use

Blackening solution for zinc

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

- Respiratory sensitizer (chapter 3.4), Cat. 1A
- Skin sensitizer (chapter 3.4), Cat. 1A
- Carcinogenicity (chapter 3.6), Cat. 1A
- Toxic to reproduction (chapter 3.7), Cat. 1B
- Specific target organ toxicity following repeated exposure (chapter 3.9), Cat. 1
- Specific target organ toxicity following repeated exposure (chapter 3.9), Cat. 2
- Acute hazards to the aquatic environment (chapter 4.1), Cat. 2

2.2 GHS label elements, including precautionary statements

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Pictogram



Signal word

Danger

Hazard statement(s)

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H350	May cause cancer [route]
H360	May damage fertility or the unborn child [effect, route]
H372	Causes damage to organs [organs] through prolonged or repeated exposure [route]
H373	May cause damage to organs [organs] through prolonged or repeated exposure [route]
H401	Toxic to aquatic life

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P501	Dispose of contents/container to ...
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see ... on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P314	Get medical advice/attention if you feel unwell.
P273	Avoid release to the environment.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Aqueous solution, with components that are not hazardous or are below 1.0% in concentration (or below 0.1% in concentration

for carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens). All ingredients are listed per the requirements

of regulations pertinent to Safety Data Sheet requirements under various regulations..

Concentration	80 - 100 %
CAS no.	11111-11-1

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2. ANTIMONY

Concentration 1 - 5 % (weight)
CAS no. 7440-36-0

3. NICKEL SULFATE HEXAHYDRATE

Concentration 1 - 5 % (weight)
CAS no. 10101-97-0

Trade secret statement (OSHA 1910.1200(i))

The specific names and CAS #'s of components have been withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Avoid all contact.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Any

5.2 Specific hazards arising from the chemical

None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel who have received basic chemical safety training can generally handle small-scale releases (e.g., under 1 kg). For small releases, the minimum Personal Protective Equipment should be rubber gloves and rubber apron, splash goggles or safety glasses. Use caution during clean-up; avoid stepping into spilled solid or clean-up procedures that generate substantial amounts of dust.

6.2 Environmental precautions

Avoid response actions that can cause a release of a significant amount of the substance (1 liter or more) into the environment.

6.3 Methods and materials for containment and cleaning up

Any available

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

HYGIENE PRACTICES: Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of dusts. Use in wellventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.

7.2 Conditions for safe storage, including any incompatibilities

Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals (See Section 10, Stability and Reactivity). Empty containers may contain residual material; therefore, empty containers should be handled with care. Material should be stored in secondary containers, or in a diked area, as appropriate. Storage and use areas should be covered with impervious materials. Inspect all

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Antimony and compounds (as Sb) (CAS: 7440-36-0)

PEL (Inhalation): 0.5 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 0.5 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 0.5 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Use this product in well-ventilated environment. Safety showers, eye wash stations, and hand-washing equipment should be available.

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

Pictograms



Eye/face protection

Splash goggles or safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, or the European Standard EN166.

Skin protection

Neoprene gloves or nitrile gloves should be used. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS. If necessary, refer to U.S. OSHA 29 CFR 1910.138, appropriate Standards of Canada, or appropriate Standards of the European Economic Community.

Body protection

Use a body protection appropriate to task (e.g., lab coat, coveralls, or apron).

Care should be taken to select protection for potentially exposed areas when prolonged exposure could

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occur in occupational settings.

Respiratory protection

None needed under normal conditions of use. Use NIOSH approved respirators if ventilation is inadequate to control sprays or mists. For situations in which significant amounts of sprays or mists could be generated, wear an air-purifying respirator with a high-efficiency particulate filter.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Green liquid
Odor	None
Odor threshold	
pH	3-4.5
Melting point/freezing point	32 deg F
Initial boiling point and boiling range	212 deg F
Flash point	NA
Evaporation rate	1
Flammability (solid, gas)	Not Flammable
Upper/lower flammability limits	NA
Upper/lower explosive limits	NA
Vapor pressure	NA
Vapor density	1
Relative density	1.046-1.058
Solubility(ies)	Complete In Water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	Does not contain VOC's

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under typical conditions of use or handling; contact with water can generate some amount of heat.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

This product is not self-reactive or air-reactive.

This product can release heat upon contact with water.

This product will not undergo hazardous polymerization.

10.5 Incompatible materials

This product is not compatible with strong oxidizers, strong acids and water-reactive substances.

10.6 Hazardous decomposition products

Products of thermal decomposition of this product can include carbon monoxide, carbon dioxide and compounds of sodium, nitrogen, sulfur.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

Mild irritation may occur

Serious eye damage/irritation

Mild irritation may occur

Respiratory or skin sensitization

Mild irritation may occur

Carcinogenicity

Antimony is a known carcinogen

Reproductive toxicity

No data available

SECTION 12: Ecological information

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data 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.

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

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SARA 311/312 Hazards

ACUTE: YES, CHRONIC: YES, FIRE: NO, REACTIVE: NO

Toxic Substances Control Act (TSCA) Inventory

All components of this product are listed on the TSCA Inventory

California Prop. 65 Components

Nickel Chloride (less than 0.1%) is present in this solution and found on the Prop 65 List. WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Massachusetts Right To Know Components

Chemical name: Antimony

CAS number: 7440-36-0

New Jersey Right To Know Components

Common name: ANTIMONY

CAS number: 7440-36-0

Pennsylvania Right To Know Components

Chemical name: Antimony

CAS number: 7440-36-0

New Jersey Right To Know Components

Common name: NICKEL SULFATE HEXAHYDRATE

CAS number: 10101-97-0

California Prop. 65 components

Chemical name: NICKEL SULFATE HEXAHYDRATE

CAS number: 10101-97-0

05/07/2004 - Cancer

HMIS Rating

Zinc Blackener A360	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

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,

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