

Safety Data Sheet Tiffany Green

SECTION 1: Identification

1.1 Product identifier

Product name	Tiffany Green
Product number	A01
Brand	CASWELL

1.2 Other means of identification

Dark Brown Liquid

1.3 Recommended use of the chemical and restrictions on use

Metal Coloring

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

- Skin corrosion/irritation (chapter 3.2), Cat. 1A
- Eye damage/irritation (chapter 3.3), Cat. 1
- 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

Tiffany Green

Signal word

Hazard statement(s)

H314
H318
EUH401

H402
H412
H302

Precautionary statement(s)

P260
P264
P280
P301+P330+P331
P303+P361+P353

P363
P304+P340
P310
P321
P305+P351+P338

P405
P501
P270
P301+P310
P330
P273
P201
P202
P308+P313

Warning

Causes severe skin burns and eye damage
Causes serious eye damage
To avoid risks to human health and the environment, comply with the instructions for use
Harmful to aquatic life
Harmful to aquatic life with long lasting effects
Harmful if swallowed

Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
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 info 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.
Dispose of contents/container per local regulations
Do not eat, drink or smoke when using this product.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
Rinse mouth.
Avoid release to the environment.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration 81 - 88 % (Weight)
CAS no. 7732-18-5

2. COPPER SULFATE PENTAHYDRATE

Concentration 4 - 5 %
CAS no. 7758-99-8

3. Ammonium chloride

Concentration 4 - 5 %
EC no. 235-186-4

Safety Data Sheet Tiffany Green

CAS no. 12125-02-9
Index no. 017-014-00-8

- Acute toxicity (chapter 3.1), Cat. 4
- Eye damage/irritation (chapter 3.3), Cat. 2

H302 Harmful if swallowed
H319 Causes serious eye irritation

4. ACETIC ACID

Concentration 0.5 - 1 %
EC no. 200-580-7
CAS no. 64-19-7
Index no. 607-002-00-6

- Flammable liquids (chapter 2.6), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage

5. Zinc chloride

Concentration 0.5 - 1 %
EC no. 231-592-0
CAS no. 7646-85-7
Index no. 030-003-00-2

- Acute toxicity (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Substance can cause severe skin, eye and respiratory tract irritation/irritation. Corrosive. Will cause eye burns and permanent tissue damage.
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. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Safety Data Sheet

Tiffany Green

If swallowed

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

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

May produce toxic selenious fumes. Reactions with organics and strong reducing agents can produce volatile organoselenides or hydrogen selenide.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Zinc chloride fume (CAS: 7646-85-7)

PEL (Inhalation): 1 mg/m³ (OSHA)

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

2. Zinc chloride fume (CAS: 7646-85-7)

PEL (Inhalation): 1 mg/m³, (ST) 2 mg/m³ (Cal/OSHA)

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

3. Zinc chloride fume (CAS: 7646-85-7)

REL (Inhalation): 1 mg/m³, (ST) 2 mg/m³ (NIOSH)

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

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).

Safety Data Sheet

Tiffany Green

Skin 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.)	Dark Brown Liquid
Odor	Slightly Acetic
Odor threshold	
pH	0.72
Melting point/freezing point	
Initial boiling point and boiling range	not available
Flash point	none
Evaporation rate	not available
Flammability (solid, gas)	none
Upper/lower flammability limits	
Vapor pressure	not available
Vapor density	Approx equal to water
Relative density	not available
Solubility(ies)	Soluble In Water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not Reactive

10.2 Chemical stability

Stable

10.5 Incompatible materials

Cyanides, organic solvents, strong reducing agents

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

ORAL LD50: 3300 mg/kg (rat)

SECTION 12: Ecological information

Toxicity

Safety Data Sheet

Tiffany Green

96-HOUR LC50: 1.5 Blue Gill (mg/l)

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)

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive Liquid, NOS (Acetic Acid)

Reportable quantity (RQ): 335 lbs

Small quantities may be shipped as Limited Quantities. Consult 49 CFR.

IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

IATA

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive Liquid, NOS (Acetic 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: Copper

CAS number: 7440-50-8

New Jersey Right To Know Components

Common name: COPPER

CAS number: 7440-50-8

Pennsylvania Right To Know Components

Chemical name: Copper

CAS number: 7440-50-8

Massachusetts Right To Know Components

Chemical name: Ammonium chloride

CAS number: 12125-02-9

New Jersey Right To Know Components

Common name: AMMONIUM CHLORIDE

CAS number: 12125-02-9

Pennsylvania Right To Know Components

Chemical name: Ammonium chloride

CAS number: 12125-02-9

Safety Data Sheet

Tiffany Green

Massachusetts Right To Know Components

Chemical name: Acetic acid

CAS number: 64-19-7

New Jersey Right To Know Components

Common name: ACETIC ACID

CAS number: 64-19-7

Pennsylvania Right To Know Components

Chemical name: Acetic acid

CAS number: 64-19-7

Massachusetts Right To Know Components

Chemical name: Zinc chloride

CAS number: 7646-85-7

New Jersey Right To Know Components

Common name: ZINC CHLORIDE

CAS number: 7646-85-7

Pennsylvania Right To Know Components

Chemical name: Zinc chloride

CAS number: 7646-85-7

HMIS Rating

Tiffany Green	
HEALTH	* 3
FLAMMABILITY	1
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.

16.2 Preparation information

L CASWELL