CASWELL INC

Safety Data Sheet
Olive Drab Chromate Part 2

SECTION 1: Identification

1.1 Product identifier

Product name	Olive Drab Chromate Part 2
Product number	OD2
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

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word **Warning**

Hazard statement(s)

H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273	Avoid release to the environment.
P501	Dispose of contents/container to …
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. FORMIC ACID

Concentration	25 - 35 %
EC no.	200-579-1
CAS no.	64-18-6
Index no.	607-001-00-0

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

H314	Causes severe skin burns and eye damage

2. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration	75 - 85 %
CAS no.	7732-18-5

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	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. 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
See section 8

4.2 Most important symptoms/effects, acute and delayed
No Data 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
No Data 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
Very toxic to environment. Do not allow product or runoff to enter waterways.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.2 Conditions for safe storage, including any incompatibilities
No Data Available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Formic acid (CAS: 64-18-6)
PEL (Inhalation): 5 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 9 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 ppm, (ST) 10 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

General industrial hygiene practice.

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.

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 cartidge or canister may be permissable under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Thermal hazards
No Data Available

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear Liquid
Odor	Sharp
Odor threshold	No Data Available
pH	< 3
Melting point/freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	Slower than n-butyl alcohol
Flammability (solid, gas)	No Data Available
Upper/lower flammability limits	No Data Available
Upper/lower explosive limits	No Data Available
Vapor pressure	No Data Available
Vapor density	Heavier Than Air
Relative density	1.122
Solubility(ies)	No Data Available
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

SECTION 10: Stability and reactivity

10.1 Reactivity
Not Reactive

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Mix material slowly at first to avoid reaction.

10.4 Conditions to avoid
Reacts with bases and metals such as iron or zinc.

10.5 Incompatible materials
Reacts with bases and metals such as iron or zinc.

10.6 Hazardous decomposition products
No Data Available

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
No Data Available

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
No Data Available

Reproductive toxicity
No Data Available

STOT-single exposure
No Data Available

STOT-repeated exposure
No Data Available

Aspiration hazard
No Data Available

SECTION 12: Ecological information

Toxicity
No Data Available. Material is toxic to the environment with long lasting effects. Avoid release.

Persistence and degradability
No Data Available

Bioaccumulative potential
No Data Available

Mobility in soil
No Data Available

Results of PBT and vPvB assessment
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.

Disposal of contaminated packaging
Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

Waste treatment
No Data Available

Sewage disposal
No Data Available

SECTION 14: Transport information

DOT (US)
UN Number: UN3265
Class: 8
Packing Group: II
Proper Shipping Name: Corrosive Liquid, Acidic, Organic NOS (Methanoic Acid)
Reportable quantity (RQ):
Marine pollutant:
Poison inhalation hazard:

IMDG
UN Number: UN3265
Class: 8
Packing Group: II
EMS Number:

Proper Shipping Name: Corrosive Liquid, Acidic, Organic NOS (Methanoic Acid)

IATA
UN Number: UN3265
Class: 8
Packing Group: II
Proper Shipping Name: Corrosive Liquid, Acidic, Organic NOS (Methanoic 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: Formic acid
CAS number: 64-18-6

New Jersey Right To Know Components
Common name: FORMIC ACID
CAS number: 64-18-6

Pennsylvania Right To Know Components
Chemical name: Formic acid
CAS number: 64-18-6

HMIS Rating

Olive Drab Chromate Part 2	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

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.