CASWELL INC

Safety Data Sheet
Olive Drab Chomate Part 1

SECTION 1: Identification

1.1 Product identifier

Product name	Olive Drab Chomate Part 1
Product number	OD1
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, oral (chapter 3.1), Cat. 3
- Acute toxicity, dermal (chapter 3.1), Cat. 1
- Acute toxicity, inhalation (chapter 3.1), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1
- Sensitization, respiratory (chapter 3.4), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Carcinogenicity (chapter 3.6), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word **Danger**

Hazard statement(s)

H301	Toxic if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H314	Causes severe skin burns and eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H350	May cause cancer
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P264	Wash … thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P321	Specific treatment (see … on this label).
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/container to …
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P310	Immediately call a POISON CENTER/doctor/...
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
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.
P320	Specific treatment is urgent (see … on this label).
P403+P233	Store in a well ventilated place. Keep container tightly closed.
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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P272	Contaminated work clothing should not be allowed out of the workplace.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
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.
P273	Avoid release to the environment.
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Chromic acid solution

Concentration	15 - 30 %
CAS no.	7738-94-5

2. Sodium nitrate

Concentration	3 - 7 %
CAS no.	7631-99-4

3. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration	82 - 82 %
CAS no.	7732-18-5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Material may cause death if ingested in moderate amounts and left untreated.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician
In case of eye contact	Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil,. Do not induce vomiting. Contact physician immediately.

Personal protective equipment for first-aid responders
See section 8

4.2 Most important symptoms/effects, acute and delayed
Material may cause death if ingested in moderate amounts and left untreated.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Spray foams on large fires or CO2 on smaller fires. Water may be used but runoff must be prevented from entering waterways or environmental damage will occur.

5.2 Specific hazards arising from the chemical
Do not allow to enter water ways.

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
Do not allow to enter waterways. If waterways are reached, call US Coast Guard Nation Response Center (1-800-424-8802). If enviromnent is threatened, addition of metabisulfite then treatment with a base by experienced personnel should be used as a last resort.

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
Avoid all contact. Wear PPE at all times. 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
Keep from freezing. Store away from heat source. 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. Chromic acid solution (CAS: 7738-94-5)
TLV® (Oral): .05 mg/m3 (OSHA)

2. Chromic acid solution (CAS: 7738-94-5)
STEL (Oral): C 0.1 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

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection
Complete suit protecting against chemicals, 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

Environmental exposure controls
Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Red/Orange Liquid
Odor	Slight
Odor threshold	No Data Available
pH	3.6-6.6
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	1.330
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

SECTION 10: Stability and reactivity

10.1 Reactivity
Not Reactive

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Will not occur when used according to directions.

10.4 Conditions to avoid
Always mix slowly at first. Concentrated material can react violently when mixed with many other materials.

10.5 Incompatible materials
Reacts with bases, metals such are iron and zinc and easily oxidized materials.

10.6 Hazardous decomposition products
Oxides of Chrome

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Oral LD50: 51.1 ppm Rat
Eyes: 124.4 ppm Rabbit

Skin corrosion/irritation
Extremely corrosive to skin

Serious eye damage/irritation
Extremely corrosive to eyes. Serious eye damage will occur

Respiratory or skin sensitization
Will cause corrosion and irriration of respiratory tract if inhaled.

Germ cell mutagenicity
No Data Available. Chromium Trioxide has been known to alter genetic material.

Carcinogenicity
Known Cancer Hazard

Reproductive toxicity
Chromium Trioxide has been known to cause reproductive issues.

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. Chromium Trioxide is extremely hazardous to the environment with long term adverse effects.

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

Other adverse effects
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: UN3264
Class: 8
Packing Group: II
Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, NOS (contains chromium compound, nitrate salt)
Reportable quantity (RQ):
Marine pollutant:
Poison inhalation hazard:
Quantities under 1L may be shipped within the US, by Ground, as LTD QTY.

IMDG
UN Number: UN3264
Class: 8
Packing Group: II
EMS Number:
Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, NOS (contains chromium compound, nitrate salt)

IATA
UN Number: UN3264
Class: 8
Packing Group: II
Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, NOS (contains chromium compound, nitrate salt)

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components
Chemical name: Chromic acid
CAS number: 7738-94-5

New Jersey Right To Know Components
Common name: CHROMIC ACID
CAS number: 7738-94-5

Pennsylvania Right To Know Components
Chemical name: Chromic acid
CAS number: 7738-94-5

California Prop. 65 components
Chemical name: Chromic acid
CAS number: 7738-94-5
02/27/1987 - Cancer
12/19/2008 - Developmental, female, male

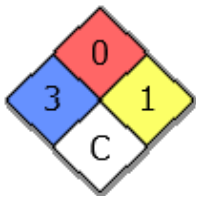
Pennsylvania Right To Know Components
Chemical name: Nitric acid, sodium salt
CAS number: 7631-99-4

California Prop. 65 components
Chemical name: Chromic acid solution
CAS number: 7738-94-5
02/27/1987 - Cancer
12/19/2008 - Developmental, female, male

HMIS Rating

Olive Drab Chomate Part 1	
HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	K

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.