

CASWELL INC

Safety Data Sheet FLEMISH GREY

SECTION 1: Identification

1.1 Product identifier

	Product name	FLEMISH GREY
	Product number Brand	A311 CASWELL
1.2	Other means of identification Blue liquid	
1.3	Recommended use of the chemical Metal Blackening	l and restrictions on use
1.4	Supplier's details	
	Name Address	Caswell Inc 7696 Route 31 Lyons NY 14489 USA
	Telephone Fax email	315 946 1213 315 946 4456 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# +01-8

Intl# +01-813-248-0585

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Serious eye damage/eye irritation (chapter 3.3), Cat. 1
- Carcinogenicity (chapter 3.6), Cat. 1A
- Specific target organ toxicity following repeated exposure (chapter 3.9), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s) H332 H314 H318 H350 H373	Harmful if inhaled Causes severe skin burns and eye damage Causes serious eye damage May cause cancer [route] May cause damage to organs [organs] through prolonged or repeated exposure [route]
Precautionary statement(s)	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor// if you feel unwell.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P310	Immediately call a POISON CENTER/doctor/
P321	Specific treatment (see on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container to
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.
P314	Get medical advice/attention if you feel unwell.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration	89.5 % (weight)
CAS no.	7732-18-5

2. Phosphoric acid liquid

Concentration	2 - 2 % (weight)
EC no.	231-633-2

CAS no. Index no.	7664-38-2 015-011-00-6
- Skin corrosion/irritation (chapter 3.2), Cat. 1B	
H314	Causes severe skin burns and eye damage
3. SELENIOUS ACID Concentration CAS no.	< 3.5 % (weight) 7783-00-8
4. Copper powder Concentration CAS no.	< 3 % (weight) 7440-50-8
5. Nitric acid (<40%) Concentration EC no. CAS no. Index no.	< 2 % (weight) 231-714-2 7697-37-2 007-004-00-1
- Oxidizing liquids (chapter 2.13), Ca - Skin corrosion/irritation (chapter 3.2	
H272 H314	May intensify fire; oxidizer Causes severe skin burns and eye damage

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/nurning. 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.
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. Phosphoric acid (CAS: 7664-38-2)

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

PEL (Inhalation): 1 mg/m3, (ST) 3 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 1 mg/m3, (ST) 3 mg/m3 (NIOSH) OSHA Annotated Table Z-1, www.osha.gov

2. Copper, Fume (as Cu) (CAS: 7440-50-8)

PEL (Inhalation): 0.1 mg/m3 (OSHA) OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 0.1 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 0.1 mg/m3 (NIOSH) OSHA Annotated Table Z-1, www.osha.gov

3. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8) PEL (Inhalation): 1 mg/m3 (OSHA) OSHA Annotated Table Z-1, www.osha.gov

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

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

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



Eye/face protection

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

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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.) Odor	Blue Liquid
Odor threshold	
pH	0.72
Melting point/freezing point	
Initial boiling point and boiling range	212 deg F
Flash point	
Evaporation rate	1
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	20
Vapor density	Approx equal to water
Relative density	1.049
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

10.2 Chemical stability

Stable

10.5 Incompatible materials

Cyanides, organic solvents, strong reducing agents

SECTION 11: Toxicological information

Information on toxicological effects

Carcinogenicity

Phosporic Acid is suspected of causing cancer

SECTION 12: Ecological information

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: UN3264 Class: 8 Packing Group: II Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Nitric acid) Reportable quantity (RQ): 335 lbs Small quantities may be shipped as Limited Quantities. Consult 49 CFR.

IMDG

UN Number: UN3264 Class: 8 Packing Group: II EMS Number: Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Nitric acid)

IATA

UN Number: UN3264 Class: 8 Packing Group: II Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Nitric 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: Selenious acid CAS number: 7783-00-8

New Jersey Right To Know Components Common name: SELENOUS ACID CAS number: 7783-00-8

Pennsylvania Right To Know Components Chemical name: Selenous acid CAS number: 7783-00-8

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: Nitric acid CAS number: 7697-37-2

New Jersey Right To Know Components Common name: NITRIC ACID CAS number: 7697-37-2

Pennsylvania Right To Know Components

Chemical name: Nitric acid CAS number: 7697-37-2

WARNING! This product contains a chemical known to the State of California to cause cancer. Chemical Name: Phosphoric Acid

HMIS Rating

FLEMISH GREY	
HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	С

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

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