

CASWELL INC

Safety Data Sheet Chocolate Brown Oxidizer

SECTION 1: Identification

1.1 Product identifier

Product name Chocolate Brown Oxidizer

Product number A312
Brand CASWELL

1.2 Other means of identification

Blue liquid

1.3 Recommended use of the chemical and restrictions on use

Metal Blackening of Steel & Iron

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

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. 1
- Eye damage/irritation (chapter 3.3), Cat. 1
- 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

2.2 GHS label elements, including precautionary statements

Pictogram

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Signal word Danger

Hazard statement(s)

H332 Harmful if inhaled

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person 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/vapours/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 ...
P273 Avoid release to the environment.

P391 Collect spillage.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration 85 - 90 % (Weight)

CAS no. 7732-18-5

2. Copper powder

Concentration 3 - < 6 % (Weight)

CAS no. 7440-50-8

3. Phosphoric acid liquid

Concentration 1 - 3 % (Weight) EC no. 231-633-2

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CAS no. 7664-38-2 Index no. 015-011-00-6

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

H314 Causes severe skin burns and eye damage

4. SELENIOUS ACID

Concentration 0.75 - < 0.99 % (Weight)

CAS no. 7783-00-8

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

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

PEL (Inhalation): 1 mg/m3, (ST) 3 mg/m3 (Cal/OSHA)

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

3. Phosphoric acid (CAS: 7664-38-2)

REL (Inhalation): 1 mg/m3, (ST) 3 mg/m3 (NIOSH)

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

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

PEL (Inhalation): 0.1 mg/m3 (OSHA)

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

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

PEL (Inhalation): 0.1 mg/m3 (Cal/OSHA)

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

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

REL (Inhalation): 0.1 mg/m3 (NIOSH)

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

7. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8)

PEL (Inhalation): 1 mg/m3 (OSHA)

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

8. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8)

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

9. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8)

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)

Pictograms









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

Odor threshold

pH 0-2.5
Melting point/freezing point 32 deg F
Initial boiling point and boiling range 220 deg F

Flash point
Evaporation rate

Flammability (solid, gas)
Upper/lower flammability limits

Vapor pressure Vapor density

Relative density Solubility(ies)

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition temperature

Viscosity

Explosive properties
Oxidizing properties

Blue Liquid

1

Approx equal to water

1.03-1.107 Soluble In Water

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

Acute toxicity

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath headache, nausea, and vomiting. It causes conjunctivitis leading eventually to an allergic type of reaction of the eyes. Acute selenium poisoning produces central nervous system effects, which include nervousness, convulsions, and drowsiness. Other signs of gastrointestinal distress, teeth that are discolored or decayed, odorous (garlic-like) breath, and partial loss of hair and nails. Chronic exposure by inhalation can produce symptoms that include pallor, coating of the tongue, anemia, irritation of the mucosa, lumbar pain, liver and spleen damage, as well as any of the other previously mentioned symptoms

Carcinogenicity

Phosporic Acid is suspected of causing cancer

SECTION 12: Ecological information

Toxicity

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Copper Sulfate: Fish: LC50 96h

Invertebrate: EC50 48h

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 (Phosphoric Acid, Selenious 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 (Phosphoric Acid, Selenious 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

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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

Chocolate Brown Oxidizer	
HEALTH	* 2
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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