

Safety Data Sheet Blue Chromate Concentrate

SECTION 1: Identification

1.1 Product identifier

Product name	Blue Chromate Concentrate
Product number	BCC
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

- Skin corrosion/irritation (chapter 3.2), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 1
- Carcinogenicity (chapter 3.6), Cat. 1A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

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Hazard statement(s)

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H350	May cause cancer
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Precautionary statement(s)

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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P273	Avoid release to the environment.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. WATER

Concentration	74.5 - 80 %
CAS no.	7732-18-5

2. Nitric acid, chromium(3+) salt (3:1)

Concentration	14 - 17 %
CAS no.	13548-38-4

3. Nitric acid (<40%)

Concentration	10 - 12 %
EC no.	231-714-2
CAS no.	7697-37-2
Index no.	007-004-00-1

- Oxidizing liquids (chapter 2.13), Cat. 3

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

H272 May intensify fire; oxidizer
H314 Causes severe skin burns and eye damage

4. Sulfuric acid (<10%)

Concentration 1 - 2 %
EC no. 231-639-5
CAS no. 7664-93-9
Index no. 016-020-00-8

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

H314 Causes severe skin burns and eye damage

5. Ammonium bifluoride

Concentration 0.5 - 1.5 %
EC no. 215-676-4
CAS no. 1341-49-7
Index no. 009-009-00-4

- Acute toxicity (chapter 3.1), Cat. 3

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

H301 Toxic if swallowed
H314 Causes severe skin burns and eye damage

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray, dry chemical, carbon dioxide

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5.2 Specific hazards arising from the chemical

Avoid contact with organic materials. Moderate oxidizer.

5.3 Special protective actions for fire-fighters

Not a fire hazard. Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

Block any potential routes to water systems.

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 contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sulfuric acid (<10%) (CAS: 7664-93-9 EC: 231-639-5)

TWA: 0.2mg/m³ (ACGIH)

2. Sulfuric acid (<10%) (CAS: 7664-93-9 EC: 231-639-5)

TWA: 1 mg/m³ (NIOSH)

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Pictograms



Eye/face protection

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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

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	Dark Blue liquid
Odor	Sharp/Acidic
Odor threshold	NA
pH	<1.5
Melting point/freezing point	NA
Initial boiling point and boiling range	>220 deg F
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	NA
Upper/lower flammability limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	1.05-1.08
Solubility(ies)	Complete in Water
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	NA
Oxidizing properties	NA

SECTION 10: Stability and reactivity

10.1 Reactivity

NA

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

NA

10.4 Conditions to avoid

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Avoid combustibles, cyanides and organics.

10.5 Incompatible materials

Alkalis will precipitate chromium

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide, oxides of sulfur and nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Cobalt Sulfate: Oral LD50 Rate 424 mg/kg

Sulfuric Acid: Oral LD50 Rat 2140 mg/kg

Ammonium Biflouride: Oral LD50 Rate 130 mg/kg

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

Cobalt Sulfate: IARC Group 2B

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

Cobalt Sulfate: EC50 72h 0.4-72 mg/L

Sulfuric Acid: LC50 96h >500 mg/L

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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.

SECTION 14: Transport information

DOT (US)

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive Liquid, NOS (Trivalent Chrome Complex, Nitric Acid)

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

Quantities under 1L may be shipped as LTD QTY by Surface

IMDG

UN Number: UN1760

Class: 8

Packing Group: II

EMS Number:

Proper Shipping Name: Corrosive Liquid, NOS (Trivalent Chrome Complex, Nitric Acid)

IATA

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive Liquid, NOS (Trivalent Chrome Complex, Nitric Acid)

SECTION 15: Regulatory information

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

New Jersey Right To Know Components

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Common name: CHROMIUM NITRATE

CAS number: 13548-38-4

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

Massachusetts Right To Know Components

Chemical name: Sulfuric acid

CAS number: 7664-93-9

New Jersey Right To Know Components

Common name: SULFURIC ACID

CAS number: 7664-93-9

Pennsylvania Right To Know Components

Chemical name: Sulfuric acid

CAS number: 7664-93-9

California Prop. 65 components

Chemical name: Sulfuric acid (<10%)

CAS number: 7664-93-9

03/14/2003 - Cancer

Massachusetts Right To Know Components

Chemical name: Ammonium bifluoride

CAS number: 1341-49-7

New Jersey Right To Know Components

Common name: AMMONIUM BIFLUORIDE

CAS number: 1341-49-7

Pennsylvania Right To Know Components

Chemical name: Ammonium fluoride

CAS number: 1341-49-7

HMIS Rating

Blue Chromate Concentrate	
HEALTH	* 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	J

NFPA Rating

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SECTION 16: Other information

16.1 Further information/disclaimer

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