

# **CASWELL INC**

# Safety Data Sheet **Tin Plating Concentrate**

# **SECTION 1: Identification**

#### **Product identifier**

Product name **Tin Plating Concentrate** 

Product number **TINCON** Brand Caswell

#### Other means of identification

Plug N Plate Tin Solution

#### Recommended use of the chemical and restrictions on use 1.3

**Electroplating Bath** 

#### Supplier's details 1.4

Caswell Inc Name 7696 Route 31 Address

Lyons, NY 14489

USA

Telephone 315 946 1213 Fax 315 946 4456

email sales@caswellplating.com

#### **Emergency phone number(s)** 1.5

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. 1B
- Germ cell mutagenicity (chapter 3.5), Cat. 2
- Corrosive to metals (chapter 2.16), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Sensitization, skin (chapter 3.4), Cat. 1A
- Hazardous to the aquatic environment long-term hazard (chapter 4.1), Cat. 1
- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

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- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2

# 2.2 GHS label elements, including precautionary statements

# **Pictogram**



#### Signal word Warning

Hazard	statem	ent(s)

H314 Causes severe skin burns and eye damage
H341 Suspected of causing genetic defects
H317 May cause an allergic skin reaction
H290 May be corrosive to metals

H319 May be corrosive to metals
Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

H332 Harmful if inhaled

H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure

# 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.

Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosive resistant/... container with a resistant inner liner.

P337+P313 If eye irritation persists: Get medical advice/attention.

P273 Avoid release to the environment.

P391 Collect spillage.

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P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER/doctor/... if you feel unwell.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P314 Get medical advice/attention if you feel unwell.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

# **Hazardous components**

1. Tin (II) Sulfate

Concentration 19 % CAS no. 7488-55-3

2. Sulfuric acid (<10%)

 Concentration
 2 %

 EC no.
 231-639-5

 CAS no.
 7664-93-9

 Index no.
 016-020-00-8

#### 3. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration 79 % 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. 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.

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

Material is destructive to mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

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# **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

None Known

#### 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

Wear PPE per section 8.

# 6.2 Environmental precautions

Avoid release into the environment.

# 6.3 Methods and materials for containment and cleaning up

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.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep away from oxidizers.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# 1. Tin (II) Sulfate (CAS: 7488-55-3)

PEL-TWA: 2mg/m3 (OSHA)

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

PEL-TWA: 1mg/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)

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#### 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.

Fully miscible in water

# 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 White liquid Odor None

Odor threshold

pH 1

Melting point/freezing point

Initial boiling point and boiling range

Flash point Evaporation rate

Flammability (solid, gas)

Upper/lower flammability limits

Vapor pressure Vapor density

Relative density 1.3

Solubility(ies)
Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties
Oxidizing properties

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

No reactive

# 10.2 Chemical stability

Stable

#### 10.5 Incompatible materials

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Strong Oxidizers

# 10.6 Hazardous decomposition products

Sulfur oxides, Tin/Tin Oxides

# **SECTION 11: Toxicological information**

# Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed, inhaled or absorbed through skin. Material is destructive to mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

LD50 Oral Rat - 2207 mh/kg (Tin Sulfate) LC50 Inhalation Rat 4 hour > 2mg/l

#### Skin corrosion/irritation

Can cause burns and irritation.

# Serious eye damage/irritation

Causes serious eye irritation.

# Respiratory or skin sensitization

May be absorbed through skin in harmful amounts.

#### Germ cell mutagenicity

Suspected of causing genetic problems.

#### Carcinogenicity

Not a carcinogen

# STOT-single exposure

Respiratory Systen

#### STOT-repeated exposure

Cardi Vascular System

# **SECTION 12: Ecological information**

#### **Toxicity**

Harmful to the environment.

LC50 - Daphnia Magna 99.5 mg/l - 48 hour (Tin Sulfate)

# **SECTION 13: Disposal considerations**

# Disposal of the product

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

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### 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: UN3264

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquid, acidic, n.o.s. (Sulfuric Acid)

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

Quantities under 1 L may be shipped as LTD QTY

**IMDG** 

UN Number: UN3264

Class: 8

Packing Group: II EMS Number:

Proper Shipping Name: Corrosive liquid, acidic, n.o.s. (Sulfuric Acid)

**IATA** 

UN Number: UN3264

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquid, acidic, n.o.s. (Sulfuric 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: 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

# **HMIS Rating**

**Tin Plating Concentrate** 

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HEALTH	* 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	С

# **NFPA Rating**



# **SECTION 16: Other information**

# 16.1 Further information/disclaimer

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