# **\*\*TECHNIC, INC.**SAFETY DATA SHEET

# **SECTION 1. IDENTIFICATION**

**Product Name:** TECHNIC CU 2800 CARRIER

**Product Code:** 405106

**Recommended use**: Electroplating bath component; for industrial use only.

Supplier:

Technic Inc.

Current SDS preparation date: September 5, 2018
1 Spectacle Street
Original SDS preparation date: November 12, 2013

Cranston, RI 02910 USA

**Telephone no:** 401-781-6100

Emergency no: ChemTrec 800-424-9300, Outside the USA and Canada 703-527-3887

## **SECTION 2. HAZARD IDENTIFICATION**

#### **Classification:**

This product is not classified as a hazardous substance or mixture according to the OSHA Hazard Communication Standard of 2012 (29 CFR 1910.1200) or the Globally Harmonized System (GHS) of chemical classification.

## Label elements and precautionary statements:

**Signal word:** No signal word **Pictogram(s):** No pictogram

Hazards not otherwise classified: None

**Hazard statement(s):**No hazard statements

#### **Precautionary statement(s):**

There are no precautionary statements applicable to this material. However, like all chemicals, it should be handled using appropriate care, personal protective equipment and safety precautions.

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## SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical nameCAS NumberEINECS NumberConcentrationCopper sulfate pentahydrate7758-99-8\*231-847-60.3%

\*Under the Toxic Substance Control Act (TSCA), hydrates are considered as mixtures of their anhydrous form and water. Accordingly, the CAS Number 7758-98-7 for the anhydrous form of this material is used for TSCA purposes.

The chemical identity and concentration of one or more ingredients of this product are withheld as a trade secret under the provisions of paragraph (i) of 29 CFR 1910.1200. This information will be made available to health professionals and others in accordance with the applicable provisions of this paragraph.

# **SECTION 4. FIRST AID MEASURES**

#### **Inhalation:**

Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

#### Skin contact:

Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

#### Eye contact:

Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

#### **Ingestion:**

If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

# **SECTION 5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use media appropriate for surrounding fire such as foam, extinguishing powder, carbon dioxide or water spray. In case of fire, cool endangered containers with water spray.

**Unsuitable extinguishing media:** High pressure water jet.

**Specific hazards in case of fire:** None reported.

**Special protective equipment and precaution for fire fighters:** For fires in enclosed areas, wear self-contained breathing apparatus and full protective gear. Do not inhale combustion gases.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear appropriate skin, eye and respiratory protection. Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

#### Methods and materials for containment and cleaning up:

Wear appropriate personal protective gear including eye, skin and respiratory protection. Contain spilled material and collect by absorption or other suitable method. Flush spill area with water. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways. (See also Section 13).

#### **Environmental precautions:**

Prevent spills and rinsings from entering storm or sanitary sewers or other waterways and contact with soil.

## SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists or vapors. Use in well-ventilated area. Do not empty waste into sanitary drains.

#### Conditions for safe storage, including incompatibilities:

Store in a cool, dry area. Use with adequate ventilation. Keep container tightly closed when not in use. Store only in the original container.

# SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** 

<u>Ingredient</u> <u>ACGIH TLV</u> <u>OSHA PEL</u> <u>Other Limits</u>
Copper sulfate 1 mg/m³ (Cu) TWA 1 mg/m³ (Cu) NIOSH REL

#### **Appropriate engineering controls:**

Use in well-ventilated area with local exhaust.

#### **Respiratory protection:**

Wear appropriate, approved respirator when ventilation is inadequate to meet exposure limits.

## **Eye protection:**

Chemical splash goggles or safety glasses with side shields must be worn.

# **Skin protection:**

Wear rubber or neoprene gloves. Wear rubber apron and long sleeves to prevent skin contact. Wash hands thoroughly with soap and water after handling and before eating or smoking.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Pale blue Odor: None

Odor threshold: Not available

**pH:** 3.0-5.0

**Melting/freezing point:** Not determined **Initial boiling point:** >100 °C (>212 °F)

Flash point: Not applicable Evaporation rate: Not available

Flammability (solid, gas): Not applicable Upper/lower explosion limits: Non-explosive

**Vapor pressure:** Not determined **Vapor density:** Not determined

Relative density (H<sub>2</sub>O = 1) @25 °C: 1.01-1.10 Solubility: Completely soluble in water at 20 °C

Partition coefficient octanol/water: Not determined

**Auto-ignition temperature:** Not applicable **Decomposition temperature:** Not available

Viscosity: Similar to water

# SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Stable, non-reactive when stored and used according to recommendations.

**Chemical stability:** No decomposition if used according to specifications.

Possibility of hazardous reactions: None are known.

Conditions to avoid: None reported.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Oxides of carbon.

## SECTION 11. TOXICOLOGICAL INFORMATION

#### **Routes of Exposure and Symptoms**

**Inhalation:** May cause slight, temporary irritation of nasal and respiratory tract.

**Ingestion:** May cause gastric upset with nausea, vomiting and diarrhea.

**Skin Contact:** May cause slight, temporary irritation to sensitive skin.

**Eye Contact:** May cause temporary irritation and redness.

# Acute and Chronic Effects from Short- and Long-term Exposure:

See Routes of Exposure and Symptoms above.

**Acute Oral Toxicity:** LD50: 300 mg/kg (rat, copper sulfate) **Acute Dermal Toxicity:** No applicable information available.

Acute Inhalation Toxicity: No applicable information available.

**Acute Eye Irritation:** No applicable information available.

**Dermal Irritation:** No applicable information available.

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**Carcinogen Listings:** 

IARC: No NTP: No OSHA: No

**Reproductive Effects:** No applicable information available. **Target Organ Effects:** No applicable information available.

# SECTION 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** EC50: 0.024 mg/l (daphnia magna, copper sulfate).

Persistence and degradability: There are no data reported for this material; however, this product

may be harmful to aquatic life.

Bio-accumulative potential: There is no evidence to suggest bioaccumulation will occur.

Mobility in soil: Accidental spillage may lead to penetration in the soil and groundwater. Improper

handling and disposal of this material may cause environmental damage.

# SECTION 13. DISPOSAL CONSIDERATIONS

#### **Waste Disposal:**

Disposal of this material is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

# **SECTION 14. TRANSPORT INFORMATION**

Not regulated by DOT (road, rail), IMDG (sea) or IATA/ICAO (air)

Marine Pollutant: Yes (Cupric sulfate)

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# **SECTION 15. REGULATORY INFORMATION**

Inventory Status: All components are on TSCA, EINECS/ELINCS, AICS, and DSL. U.S. Regulations:
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
SARA (311/312) HAZARD CATEGORIES:
X_NoneImmediateDelayedFireReactivePressure generating
SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.  Chemical Name CAS Number Concentration 0.3%
The following product components are cited on the lists below:  Chemical Name  CAS Number  List Citations  California Proposition 65 List
SECTION 16. OTHER INFORMATION
VOC (Volatile Organic Compounds): None
HMIS Ratings:
Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: ${\sf C}$
Prepared by: Allan H. Reed
SDS Preparation date: September 5, 2018 Supersedes previous version: September 21, 2016.
This SDS contains revisions in the following section(s): None; date revision only.
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End of Safety Data Sheet