

# TCI AMERICA SAFETY DATA SHEET

Revision number: 1 **Revision date: 07/06/2018** 

## 1. IDENTIFICATION

Product name: Copper(I) Cyanide

Product code: C1952

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

#### 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4]

Sensitization - Skin [Category 1] WHMIS 2015:

> Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Signal word: Danger!

Hazard Statement(s): Harmful if swallowed

May cause an allergic skin reaction

Causes damage to organs through prolonged or repeated exposure: Respiratory System Central

Nervous System

May cause damage to organs through prolonged or repeated exposure: Liver Blood System Kidney

Spleen

#### Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention] Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace. Wash hands and face

thoroughly after handling. Wear protective gloves.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty [Response] of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated

clothing before reuse. Get medical advice or attention if you feel unwell.

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

None.

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

 Substance/mixture:
 Substance

 Components:
 Copper(I) Cyanide

 Percent:
 >98.0%(T)

 CAS RN:
 544-92-3

 Molecular Weight:
 89.56

 Chemical Formula:
 CuCN

## 4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If

skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Symptoms/effects:

Acute: No data available

**Delayed:** May cause skin sensitization.

Indication of any immediate medical attention:

Not available.

Notes to physician:
No data available

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides Metallic oxides

Other specific hazards: WARNING: Very toxic cyanide gas may be produced in a fire. Do no inhale

Advice for firefighters: Wear self-contained breathing apparatus if possible.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Environmental precautions:

Methods and materials for containment

and cleaning up:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Prevent product from entering drains.

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust as possible so that workers should not be exposed directly. Also install safety

shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: White - Slightly pale green

Odour:No data availableOdor threshold:No data availableOdour threshold:No data available

Melting point/freezing point:473°C (883°F)pH:No data availableBoiling point/range:No data availableVapour pressure:No data availableDecomposition temperature:No data availableVapour density:No data availableRelative density:No data availableDynamic Viscosity:No data available

Kinematic viscosity: No data available
Log Pow: No data available

data available Evaporation rate(Butyl

Acetate=1):

Flash point: No data available Autoignition temperature: No data available

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: No data available Upper: No data available

No data available

Solubility(ies):

[Water] Insoluble [Other solvents]

Insoluble: Alcohols, Dilute acids, Ammonium hydroxide

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

**Chemical stability:** Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents, Acids

Hazardous decomposition products: Carbon monoxide, carbon dioxide etc

## 11. TOXICOLOGICAL INFORMATION

RTECS Number: GL7150000

Acute Toxicity:

orl-rat LD50:1265 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:

No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

No data available

Target organ(s):

Causes damage to organs through prolonged or repeated exposure: Respiratory System Central Nervous System May cause damage to organs through prolonged or repeated exposure: Liver Blood System Kidney Spleen

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: No data available Crustacea: No data available Algae: No data available

Persistence / degradability: No data available Bioaccumulative potential(BCF): No data available

Mobility in soil

Log Pow: No data available Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol): No data available

## 13. DISPOSAL CONSIDERATIONS

**Disposal of product:** Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.

Disposal of container:

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

DOT (US)

**UN** number: **Proper Shipping Name:** Class or Division: **Packing Group:** 

UN1587 Copper cyanide 6.1 Toxic material.

IATA

**UN** number: **Proper Shipping Name:** Class or Division: **Packing Group:** 

UN1587 Copper cyanide 6.1 Toxic material.

IMDG

**Proper Shipping Name:** UN1587 **Class or Division: Packing Group:** UN

numb Copper cyanide 6.1 Toxic material.

er:

Severe Marine Pollutant **Marine Pollutant:** 

EmS number: F-A. S-A

10 pounds (4.54 Kilograms) Reportable Quantitiy:

# 15. REGULATORY INFORMATION

# Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

# **US Federal Regulations**

## **CERCLA Hazardous substance and Reportable Quantity:**

**SARA 313:** Not Listed Not Listed **SARA 302:** 

State Regulations

State Right-to-Know

Listed Massachusetts **New Jersey** Listed Pennsylvania Listed California Proposition 65: Not Listed

Other Information

NFPA Rating: **HMIS Classification:** 

Health: Health: Flammability: 0 Flammability: 0 0 0 Instability: Physical:

**International Inventories** 

Canada: DSL On DSL EC-No: 208-883-6 Copper(I) Cyanide TCI AMERICA Page 5 of 5

## 16. OTHER INFORMATION

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.