

# Material Safety Data Sheet / Safety Data sheet

## Copper (I) Thiocyanate

### Section 1: Chemical Product Identifier and Synonyms

Product Name: Copper (I) Thiocyanate

UN Number: Not available.

CAS Number: 1111-67-7

Synonym: Copper (I) Thiocyanate; Copper Rhodanide; Cuprous Thiocyanate

Chemical Formula: CuSCN

### Section 2: Composition and Information on Ingredients

#### Composition

Name	CAS Number:	% By Weight
Copper (I) Thiocyanate	1111-67-7	>90-100

**Toxicology Data On Ingredients:** Copper (I) Thiocyanate LD50: Not Available. LC50: Not Available

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Slightly hazardous in case of eye contact (irritant), of ingestion, of inhalation.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

### Section 4: First Aid Measures

#### Eye Contact:

If contact with the eye(s) occur, wash with copious amounts of water, holding Eyes eyelid(s) open. Take care not to rinse contaminated water into the nonaffected eye. If irritation develops and persists, seek medical attention.

#### Skin Contact:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. Remove affected clothing and wash all exposed skin area with

mild soap and water, followed by warm water rinse.

**Inhalation:**

If inhaled, move from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

**Ingestion:**

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Not available.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:** Not available.

**Risks of explosion of the product in presence of mechanical impact:** Not available.

**Risks of explosion of the product in presence of static discharge:** Not available.

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Avoid dust formation and use personal protective equipment.

**Large Spill:**

Prevent dispersion by covering with dry sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## Section 7: Handling and Storage

### **Precautions:**

Avoid generating dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking, or using the toilet.

### **Storage:**

Store in a cool, dry well-ventilated area; out of direct sunlight and moisture. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Store away from bases, water, and other incompatible materials. Have appropriate fire extinguishers available in and near the storage area.

## Section 8: Exposure Controls / Personal Protection

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### **Personal Protection:**

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P3.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Exposure Limits:**

Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Powdered solid.)

**Odour:** Odourless.

**Taste:** Not available.

**Molecular Weight:** 121.628 g/mole

**Colour:** White-ish.

**pH (1% soln/water):** 5%-7%

**Boiling Point:** Not applicable.

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** 2.84 (Water = 1)

**Vapour Pressure:** Not available.

**Vapour Density:** Not available.  
**Volatility:** Not available.  
**Odour Threshold:** Not available.  
**Water/Oil Dist. Coeff.:** Not available.  
**Ionicity (in Water):** Not available.  
**Dispersion Properties:** Not available.  
**Solubility:** Soluble in water.  $8.427 \cdot 10^{-6}$  g/l at 20 °C

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable under normal conditions.  
**Instability Temperature:** Not available.  
**Conditions of Instability:**  
Direct sunlight. Extremes of temperature and dusty conditions.  
**Incompatibility with various substances:** Acids.  
**Corrosivity:** Not available.  
**Special Remarks on Reactivity:** Decomposes at a high temperature.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Eye contact. Inhalation. Ingestion.  
**Toxicity to Animals:** Acute oral toxicity (LD50): 5000 mg/kg [Rat]. LC50: Not available.  
**Chronic Effects on Humans:** Not available.  
**Other Toxic Effects on Humans:** Slightly hazardous in case of ingestion, of inhalation  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.  
**Special Remarks on other Toxic Effects on Humans:** Not available.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.  
**BOD5 and COD:** Not available.  
**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
**Toxicity of the Products of Biodegradation:** The products of degradation are as toxic as the original product.  
**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Information

**Waste Disposal:** Dispose of in accordance with local regulations

## Section 14: Transport Information

**DOT Classification:** Not regulated.

**Identification:** Not available.

**Special Provisions for Transport:** Not available.

## Section 15: Regulatory Information

**Regulations:** Labelling according to Regulation (EC) No 1272/2008.

## Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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