

# MATERIAL SAFETY DATA SHEET

## 8-Hydroxyquinoline



HEALTH	2
FIRE	1
REACTIVITY	0
PROTECTION	E

### Section 1: Chemical Product and Company Identification

**Product Name:** 8-Hydroxyquinoline, Copper Salt  
**Product Code:**  
**CAS#:** 10380-28-6  
**TSCA:** TSCA 8(b) inventory: 8-Hydroxyquinoline, Copper Salt  
**Synonym:** 8-Quinolinol, copper (II) chelate  
**Chemical Name:** 8-Hydroxyquinoline, Copper Salt  
**Chemical Formula:** C<sub>18</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>-Cu  
**Contact Information for emergency:**  
 OMKROWN PHARMACHEM PVT LTD  
 422/4 GOA ROAD, MACCHE, BELGAUM 590003. INDIA  
[Tel:+91 8312497086](tel:+918312497086) Email: [info@omkrown.com](mailto:info@omkrown.com)

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Wt
{8}-Hydroxyquinoline, Copper Salt	10380-28-6	100

### Section 3: Hazards Identification

**Potential Acute Health Effects:** Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.  
**Potential Chronic Health Effects:**  
 CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. 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:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**Serious Inhalation:** Not available.  
**Ingestion:** 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.  
**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.  
**Flash Points:** Not available.  
**Flammable Limits:** Not available.  
**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).  
**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat.  
**Explosion Hazards in Presence of Various Substances:** 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:**  
 SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.  
**Special Remarks on Fire Hazards:** Not available.  
**Special Remarks on Explosion Hazards:** Not available.

### Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.  
**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7: Handling and Storage

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 8°C (46.4°F). Refrigerate.

### 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:** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.  
**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.  
**Exposure Limits:** Not available.

### Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (crystalline powder)  
**Odor:** Not available.  
**Taste:** Not available.  
**Molecular Weight:** 351.85 g/mole  
**Color:** greenish-yellow  
**pH (1% soln/water):** Not applicable.



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**Boiling Point:** Not available.  
**Melting Point:** >200°C (392°F)  
**Critical Temperature:** Not available.  
**Specific Gravity:** Not available.  
**Vapor Pressure:** Not applicable.  
**Vapor Density:** Not available.  
**Volatility:** Not available.  
**Odor Threshold:** Not available.  
**Water/Oil Dist. Coeff.:** Not available.  
**Ionicity (in Water):** Not available.  
**Dispersion Properties:** Not available.  
**Solubility:** Insoluble in cold water, hot water.

### Section 10: Stability and Reactivity Data

**Stability:** The product is stable.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Excess heat, excess dust generation  
**Incompatibility with various substances:** Not available.  
**Corrosivity:** Not available.  
**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Will not occur.

### Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.  
**Toxicity to Animals:**  
 Acute oral toxicity (LD50): 3940 mg/kg [Mouse]. Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit].  
**Chronic Effects on Humans:** MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.  
**Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation.  
**Special Remarks on Toxicity to Animals:**  
 Lethal Dose/Conc 50% Kill: LC50 [Rat] - Route: Inhalation; Dose: 820 mg/kg. \*Please Note that the time period for testing was not indicated by the Registry of Toxic Effects of Chemical Substances (RTECS).  
**Special Remarks on Chronic Effects on Humans:** May affect genetic material and may cause cancer based on animal data. No human data found.  
**Special Remarks on other Toxic Effects on Humans:**  
 Acute Potential Health Effects: Skin: May cause skin irritation. It may be absorbed through the skin. Eye: Dust may cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. May be harmful if inhaled. Ingestion: May affect behavior (somnolence - general depressed activity), gastrointestinal tract (irritation, diarrhea, hypermotility), respiratory system (dyspnea), nervous system, liver, urinary system, spleen, liver, metabolism, blood.

### 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 less toxic than the product itself.  
**Special Remarks on the Products of Biodegradation:** Not available.

### Section 13: Disposal Considerations

**Waste Disposal:**  
 Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).  
**Identification:** Not applicable.  
**Special Provisions for Transport:** Not applicable.

### Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: 8-Hydroxyquinoline, Copper Salt  
**Other Regulations:** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.  
**Other Classifications:**  
**WHMIS (Canada):** CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).  
**DSCL (EEC):**  
 R20- Harmful by inhalation. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.  
**HMIS (U.S.A.):**  
**Health Hazard:** 2  
**Fire Hazard:** 1  
**Reactivity:** 0  
**Personal Protection:** E  
**National Fire Protection Association (U.S.A.):**  
**Health:** 2  
**Flammability:** 1  
**Reactivity:** 0  
**Specific hazard:**  
**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

### Section 16: Other Information

**Created:** 10/01/2010 **Last Updated:** 06/01/2015  
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