







# Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
 	Toxic compound, do not ingest or inhale. Avoid all contact with this material. Irritating to skin, eyes, and the respiratory system. Readily absorbed through skin.	   

## Section I. Chemical Product and Company Identification

Chemical Name	<b>5-Chloro-8-hydroxy-7-iodoquinoline</b>		
Catalog Number	C0187	Supplier	TCI America 9211 N. Harborside St. Portland OR 1-800-423-8616
Synonym	5-Chloro-7-iodo-8-hydroxyquinoline	<div style="border: 2px solid black; padding: 5px;">           In case of Emergency Call <b>Chemtrec®</b>  <b>(800) 424-9300 (U.S.)</b>  <b>(703) 527-3887 (International)</b> </div>	
Chemical Formula	C <sub>9</sub> H <sub>5</sub> ClINO		
CAS Number	130-26-7		

## Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
5-Chloro-8-hydroxy-7-iodoquinoline	130-26-7	Min 95.0 (HPLC)	Not available.	Rat LD <sub>50</sub> (oral) > 5,000 mg/kg Rat LD <sub>50</sub> (intraperitoneal) 3400 mg/kg Rat LD <sub>50</sub> (subcutaneous) >5 gm/kg Mouse LD <sub>50</sub> (oral) 69 mg/kg

## Section III. Hazards Identification

Acute Health Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Readily absorbed through skin. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	<b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Not available. <b>DEVELOPMENTAL TOXICITY</b> Reproductive Effects. Rat TDLo Oral 9000 mg/kg, female 30 days prior to mating <b>TOXIC Effects:</b> Maternal Effects - Ovaries, fallopian tubes Maternal Effects - Uterus, cervix, vagina Rat TDLo Oral 1320 mg/kg, female 7-17 days of pregnancy <b>TOXIC Effects:</b> Effects on Embryo or Fetus - Fetotoxicity Effects on Newborn - Weaning or lactation index Effects on Newborn - Physical Rat TDLO Oral 528 mg/kg, female 7-17 days of pregnancy <b>TOXIC Effects:</b> Specific Developmental Abnormalities - Musculoskeletal system Effects on Newborn - Growth statistics

## Section IV. 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 for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

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**Section V. Fire and Explosion Data**

Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ), halogenated compounds. WARNING: Highly toxic HCl gas is produced during combustion.		
Fire Hazards	Not available.		
Explosion Hazards	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. Consult with local fire authorities before attempting large scale fire-fighting operations.		


**Section VI. Accidental Release Measures**

Spill Cleanup Instructions	Toxic material. Irritating material. Readily absorbed through skin. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.
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**Section VII. Handling and Storage**

Handling and Storage Information	TOXIC. IRRITANT. READILY ABSORBED THROUGH SKIN. Keep locked up.. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, acids.
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**Section VIII. 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. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. <div style="text-align: center;">  </div>		
Exposure Limits	Not available.		

**Section IX. Physical and Chemical Properties**

Physical state @ 20°C	Solid. (Greenish-Yellow, Powder & Small Granular.)	Solubility	One part dissolves in 43 parts of boiling alcohol, 128 parts chloroform, 17 parts boiling ethyl acetate, 170 parts of cold acetic acid, 13 parts of boiling acetic acid. Almost insoluble in water, cold alcohol, ether.
Specific Gravity	Not available.		Soluble at room temp: water <0.01, methanol 1.9, ethanol 1.3, ether 5.4, chloroform 14.9, 0.1N NaOH 17.3, 0.1N HCl 0.2, acetonitrile between 1.7-2.5, tetrahydrofuran between 20-100, ethyl acetate between 6.1-10, carbon disulfide between 10-20, dimethyl sulfoxide between 20-100, dimethyl acetamide between 20-100.
Molecular Weight	305.5	Partition Coefficient	Not available.
Boiling Point	Not available.	Vapor Pressure	Not applicable.
Melting Point	171 to 174°C (339.8 to 345.2°F)	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	Not available.	Taste	Not available.

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**Section X. Stability and Reactivity Data**

Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)
Conditions of Instability	Avoid excessive heat and light.
Incompatibilities	Reactive with strong oxidizing agents, strong acids, acid chlorides, and acid anhydrides.

**Section XI. Toxicological Information**

RTECS Number	VC5075000
Routes of Exposure	Eye Contact. Ingestion. Inhalation.
Toxicity Data	Rat LD <sub>50</sub> (oral) > 5,000 mg/kg Rat LD <sub>50</sub> (intraperitoneal) 3400 mg/kg Rat LD <sub>50</sub> (subcutaneous) >5 gm/kg Mouse LD <sub>50</sub> (oral) 69 mg/kg
Chronic Toxic Effects	<b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Not available. <b>DEVELOPMENTAL TOXICITY</b> Reproductive Effects. Rat TDLo Oral 9000 mg/kg, female 30 days prior to mating TOXIC Effects: Maternal Effects - Ovaries, fallopian tubes Maternal Effects - Uterus, cervix, vagina Rat TDLo Oral 1320 mg/kg, female 7-17 days of pregnancy TOXIC Effects: Effects on Embryo or Fetus - Fetotoxicity Effects on Newborn - Weaning or lactation index Effects on Newborn - Physical Rat TDLO Oral 528 mg/kg, female 7-17 days of pregnancy TOXIC Effects: Specific Developmental Abnormalities - Musculoskeletal system Effects on Newborn - Growth statistics
Acute Toxic Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Readily absorbed through skin. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.


**Section XII. Ecological Information**

Ecotoxicity	Not available.
Environmental Fate	Not available.

**Section XIII. Disposal Considerations**

Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. 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. Observe all federal, state and local regulations when disposing of the substance.
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**Section XIV. Transport Information**

DOT Classification	DOT CLASS 6.1: Toxic material
PIN Number	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s.
Packing Group (PG)	III
DOT Pictograms	

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**Section XV. Other Regulatory Information and Pictograms**

TSCA Chemical Inventory (EPA)	This compound is <b>ON</b> the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	On NDSL
EINECS Number (EEC)	204-984-4
EEC Risk Statements	R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.
Japanese Regulatory Data	Not available.

**Section XVI. Other Information****Version 1.0****Validated on 8/4/2005.****Printed 8/4/2005.****Notice to Reader**

TCI laboratory 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 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 MSDS sheets 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 MSDS sheets 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, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

Printed 8/4/2005.