

## Safety Data Sheet 8 HYDROXYQUINOLINE

SDS no. 5QE2CRCY • Version 1.0 • Date of issue: 2023-11-28

---

### SECTION 1: Identification

#### GHS Product identifier

Product name 8 HYDROXYQUINOLINE

#### Other means of identification

8-HYDROXYQUINOLINE LR HL035  
Hydroxybenzopyridine, 8-Quinolinol, Phenopyridine, Oxyquinoline,  
Oxine

#### Recommended use of the chemical and restrictions on use

Precipitating and separating metals, preparation of fungicides, chelating agent, disinfectant; laboratory reagent.

Additional information: When used for laboratory chemical analysis, it has no poison schedule. If this compound is used in human therapeutic use or human topical use then it may acquire a poison schedule of S2 or S4.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

---

### SECTION 2: Hazard identification

#### General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

# Safety Data Sheet

## 8 HYDROXYQUINOLINE

SDS no. 5QE2CRCY • Version 1.0 • Date of issue: 2023-11-28

- Acute toxicity, oral, Cat. 4
- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Serious eye damage/eye irritation, Cat. 1
- Toxic to reproduction, Cat. 2
- Skin sensitizer, Cat. 1

### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

**Danger**

#### Hazard statement(s)

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child [effect, route]
H400	Very toxic to aquatic life

#### Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell,
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

#### Mixtures

Molecular weight: 145.16

#### Components

Component	CAS no.	Concentration
8-HYDROXYQUINOLINE (EC no.: 205-711-1; Index no.: 613-324-00-8)	148-24-3	99.5 - 100 % (weight)
CLASSIFICATIONS: Toxic to reproduction, Cat. 1B; Acute toxicity, oral, Cat. 3; Serious eye damage/eye irritation, Cat. 1; Skin sensitizer, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H301 - Toxic if swallowed; H317 - May		

cause an allergic skin reaction; H318 - Causes serious eye damage; H360D - May damage the unborn child; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects. [SCLs/M-factors/ATEs]: M=1; M=1

---

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
In case of skin contact	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

---

## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

May burn but do not ignite readily.

Small fire: Use dry chemical, CO<sub>2</sub>, water spray or foam.

Large fire: Use water spray, fog or foam.

### Specific hazards arising from the chemical

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

---

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

**Methods and materials for containment and cleaning up**

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations. Prevent from entering into drains, ditches, rivers or the sea.

---

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Only use in well-ventilated areas. Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. Light sensitive.

**Conditions for safe storage, including any incompatibilities**

Store away from oxidizing agents. Store in a cool, dry place. Store in well ventilated area. Keep containers closed at all times. Keep containers securely sealed and protected against physical damage. Keep away from direct sunlight

---

**SECTION 8: Exposure controls/personal protection**

**Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Skin protection**

Hand Protection: Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

**Body protection**

Wear suitable protective clothing and gloves to prevent skin contact. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Respiratory protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

---

**SECTION 9: Physical and chemical properties**

**Basic physical and chemical properties**

Physical state	Solid
Appearance	White crystals or powder.
Color	No data available.
Odor	Phenolic odour.
Odor threshold	No data available.
Melting point/freezing point	72 - 74 °C
Boiling point or initial boiling point and boiling range	267 °C (513 F)
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.

## Safety Data Sheet

### 8 HYDROXYQUINOLINE

SDS no. 5QE2CRCY • Version 1.0 • Date of issue: 2023-11-28

Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Insoluble (20 °C) Solubility in Organic Solvents: Soluble in alcohol, acetone, chloroform, benzene and in formic, acetic, hydrochloric and sulfuric acids and alkalies.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 1.01 (Water = 1)
Relative vapor density	No data available.
Particle characteristics	No data available.

#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

Other Information: Darkens when exposed to light.

---

## SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

#### Chemical stability

Stable under recommended storage conditions. Darkens on exposure to light.

#### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

Light. Dust generation. Excess heat. Incompatibles.

#### Incompatible materials

Strong oxidising agents, strong acids.

#### Hazardous decomposition products

Oxides of carbon and oxides of nitrogen.

---

## SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Acute Toxicity - Oral: LD50 (rat): 1200 mg/kg.

Acute Toxicity - Inhalation: LC50 (rat): 1210 mg/m<sup>3</sup>/6h.

## Safety Data Sheet

### 8 HYDROXYQUINOLINE

SDS no. 5QE2CRCY • Version 1.0 • Date of issue: 2023-11-28

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive and gastrointesinal tract with symptoms including nausea, vomiting, diarrhea, anorexia, and malaise. Based on studies with laboratory animals, large oral doses may cause confusion, respiratory difficulty, paralysis, and other central nervous system effects.

**Inhalation:** Inhalation of dust causes irritation to the mucous membranes of the respiratory tract. Symptoms may include coughing, laboured breathing, dyspnoea and chest pain. Other health effects may parallel those from ingestion.

#### **Skin corrosion/irritation**

Causes skin irritation with redness and pain.

#### **Serious eye damage/irritation**

Causes irritation, redness and pain.

#### **Respiratory or skin sensitization**

May cause an allergic skin reaction

#### **Germ cell mutagenicity**

May affect genetic material. Mutagenic for bacteria and/or yeast. May cause damage to the central nervous system.  
8-Hydroxyquinoline: Mutation in mammalian somatic cells (mouse): lym 400 ug/l.

#### **Carcinogenicity**

No data available.

#### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child

#### **Specific target organ toxicity (STOT) - single exposure**

No data available.

#### **Specific target organ toxicity (STOT) - repeated exposure**

No data available.

#### **Aspiration hazard**

No data available.

#### **Additional information**

No data available.

---

## SECTION 12: Ecological information

#### **Toxicity**

Acute Toxicity - Fish: LC50: 18 mg/l/96h.

---

## SECTION 13: Disposal considerations

#### **Disposal methods**

#### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### **Other disposal recommendations**

Do not discharge this material into waterways, drains and sewers.

---

## **SECTION 14: Transport information**

### **ADG (Road and Rail)**

UN Number: 2811  
Class: 6.1  
Packing Group: III  
Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (8-Hydroxyquinoline)  
Marine pollutant: Yes

### **Hazchem emergency action code (EAC)**

2X

### **IMDG**

UN Number: 2811  
Class: 6.1  
Packing Group: III  
Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (8-Hydroxyquinoline)  
Marine pollutant: Yes

### **IATA**

UN Number: 2811  
Class: 6.1  
Packing Group: III  
Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (8-Hydroxyquinoline)  
Marine pollutant: Yes

---

## **SECTION 15: Regulatory information**

### **Safety, health and environmental regulations specific for the product in question**

#### **Australia SUSMP**

Poison Schedule: NS

---

## **SECTION 16: Other information**

### **Further information/disclaimer**

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### **Preparation information**

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia  
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'  
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.  
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.  
Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019  
Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)  
IATA, Dangerous Goods Regulations (DGR)  
IMO, International Maritime Dangerous Goods Code (IMDG)