



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 28-Jan-2022

Version 1.4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name 8-Hydroxyquinoline  
Product Code SC-202896

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

For research use only. Not intended for diagnostic or therapeutic use.

### Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc.  
10410 Finnell Street  
Dallas, TX 75220  
831.457.3800  
800.457.3801  
scbt@scbt.com

### Emergency telephone number

Chemtrec  
1.800.424.9300 (Within USA)  
+1.703.527.3887 (Outside USA)

## 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification

|                                   |             |
|-----------------------------------|-------------|
| Acute toxicity - Oral             | Category 4  |
| Serious eye damage/eye irritation | Category 1  |
| Skin sensitization                | Category 1  |
| Germ Cell Mutagenicity            | Category 2  |
| Reproductive toxicity             | Category 1B |

### Label elements

|                   |   |
|-------------------|---|
| Signal word       | Danger  |
| Hazard statements | Harmful if swallowed<br>May be harmful if inhaled<br>Causes serious eye damage<br>May cause an allergic skin reaction<br>Suspected of causing genetic defects<br>May damage fertility or the unborn child |

Symbols/Pictograms



Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves



Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Store locked up  
 Dispose of contents/container to an approved waste disposal plant

Precautionary Statements - Storage  
 Precautionary Statements - Disposal

**Hazards not otherwise classified (HNOC)**

Hazards not otherwise classified (HNOC) Not applicable

**Other Information**

Other hazards Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

|             |                                  |   |  |             |                           |   |
|-------------|----------------------------------|---|--|-------------|---------------------------|---|
| <b>NFPA</b> | Health hazards                   | - |  | <b>HMIS</b> | Health hazards            | - |
|             | Flammability                     | - |  |             | Flammability              | - |
|             | Stability                        | - |  |             | Physical hazards          | - |
|             | Physical and chemical properties | - |  |             | Personal protection       | - |
|             |                                  |   |  |             | * = Chronic Health Hazard |   |

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS No 148-24-3  
 Molecular Weight 145.17  
 Formula C<sub>9</sub>H<sub>7</sub>NO

| Chemical name      | CAS No.  | Weight-% | Oral LD50            | Dermal LD50           | Inhalation LC50                      |
|--------------------|----------|----------|----------------------|-----------------------|--------------------------------------|
| 8-Hydroxyquinoline | 148-24-3 | >98      | = 1200 mg/kg ( Rat ) | > 10000 mg/kg ( Rat ) | > 1210 mg/m <sup>3</sup> ( Rat ) 6 h |

**4. FIRST AID MEASURES**

**First Aid Measures**

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation Remove to fresh air Call a physician If breathing is irregular or stopped, administer artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Artificial respiration and/or oxygen may be necessary Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything



Self-protection of the first aider by mouth to an unconscious person. Call a physician.  
Use personal protective equipment as required.

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

Symptoms No information available.

### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

### Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### Explosion data

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

### Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.



Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Corrosive hazard. Wear protective gloves/clothing and eye/face protection.

### Conditions for safe storage, including any incompatibilities

|                        |   |
|------------------------|---|
| Storage Conditions     | Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Store at room temperature. |
| Incompatible materials | None known based on information supplied.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

|                     |   |
|---------------------|---|
| Exposure Guidelines | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|---------------------|---|

### Appropriate engineering controls

|                      |  |
|----------------------|--|
| Engineering Controls | Showers<br>Eyewash stations<br>Ventilation systems |
|----------------------|--|

### Individual protection measures, such as personal protective equipment

|                                |   |
|--------------------------------|---|
| Eye/face protection            | Tight sealing safety goggles. Face protection shield.   |
| Skin and Body Protection       | Wear protective gloves and protective clothing.   |
| Respiratory protection         | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| General Hygiene Considerations | When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                          |
|------------------------------|--------------------------|
| Physical State               | Solid                    |
| Appearance                   | powder                   |
| Odor                         | Odorless                 |
| <b><u>Property</u></b>       | <b><u>Values</u></b>     |
| pH                           | No information available |
| Melting point/freezing point | 70 °C                    |
| Boiling point                | 267 °C                   |
| Flash point                  | No information available |
| Liquid Density               | 1.034 g/cm <sup>3</sup>  |
| Evaporation rate             | No information available |
| Upper flammability limits    | No information available |
| Lower flammability limit     | No information available |
| Vapor pressure               | 0.1 mmHg                 |
| Vapor density                | No information available |
| Specific gravity             | No information available |
| Water solubility             | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient        | 2.02                     |
| Autoignition temperature     | No information available |
| Decomposition temperature    | No information available |
| Kinematic viscosity          | No information available |



Explosive properties No information available  
 Oxidizing properties No information available

## 10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability Stable under recommended storage conditions.  
 Possibility of Hazardous Reactions None under normal processing.  
 Hazardous polymerization No information available.  
 Conditions to avoid Extremes of temperature and direct sunlight.  
 Incompatible materials Strong oxidizing agents.  
 Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation No data available.  
 Eye contact No data available.  
 Skin Contact No data available.  
 Ingestion No data available.

### Information on toxicological effects

Symptoms No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Avoid repeated exposure.  
 Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                  | ACGIH | IARC    | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| 8-Hydroxyquinoline<br>148-24-3 | -     | Group 3 | -   | -    |

*IARC (International Agency for Research on Cancer) Not classifiable as a human carcinogen*

### Numerical measures of toxicity - Product Information

Unknown acute toxicity No information available  
 The following values are calculated based on chapter 3.1 of the GHS document

|                           |             |
|---------------------------|-------------|
| ATEmix (oral)             | 1200 mg/kg  |
| ATEmix (dermal)           | 10010 mg/kg |
| ATEmix (inhalation-vapor) | 1210 mg/l   |

## 12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability No information available.  
 Bioaccumulation No information available.  
 Mobility No information available.



### 13. DISPOSAL CONSIDERATIONS

|                        |   |
|------------------------|---|
| Disposal of wastes     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Do not reuse container.   |
| Other Information      | Waste codes should be assigned by the user based on the application for which the product was used. |

### 14. TRANSPORT INFORMATION

|                                 |  |
|---------------------------------|--|
| <b>DOT</b>                      | ***  |
| UN/ID no                        | UN2811***  |
| Hazard Class                    | 6.1***   |
| Packing Group                   | III***   |
| Proper shipping name            | Toxic solids, organic, n.o.s.***                   |
| Description                     | UN2811, Toxic solids, organic, n.o.s., 6.1, III*** |
| Emergency Response Guide Number | 154***   |
| <b>IMDG</b>                     | ***  |
| UN/ID no                        | UN2811***  |
| Hazard Class                    | 6.1***   |
| Packing Group                   | I***   |
| Proper shipping name            | Toxic solid, organic, n.o.s.***                    |
| Description                     | UN2811, Toxic solid, organic, n.o.s., 6.1, I***    |
| Special Provisions              | 274***   |
| EmS-No                          | F-A, S-A***  |
| <b>IATA</b>                     | ***  |
| UN/ID no                        | UN2811***  |
| Hazard Class                    | 6.1***   |
| Packing Group                   | III***   |
| Proper shipping name            | Toxic solid, organic, n.o.s.***                    |
| Description                     | UN2811, Toxic solid, organic, n.o.s., 6.1, III***  |
| ERG Code                        | 6L***  |

### 15. REGULATORY INFORMATION

#### International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): China (IECSC)  
ENCS (Japan): Philippines (PICCS)\*\*\*

| Chemical name      | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|--------------------|------|-----|------|--------|--------|------|-------|------|-------|------|
| 8-Hydroxyquinoline | X    | X   | -    | X      | -      | X    | X     | X    | X     | X    |

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### SARA 313



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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

**16. OTHER INFORMATION**

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Revision note

No information available

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**