

# SAFETY DATA SHEET

## 1.PRODUCT IDENTIFICATION

**1.1.Product Name:** Cinchonine

**1.2.Catalog Number:** APL-0118105

**1.3.Details of the supplier of the safety data sheet**

◆**Company:** APOLO Biochemical, Inc

575 ELMWOOD AVE.

MC56940A, ROCHESTER,

NY 14642, USA

◆**Customer Information E-mail:** info@apolobiochem.com / order@apolo.com.tw

## 2.HAZARDS IDENTIFICATION

### 2.1.GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion/irritation,(Category 2), H315

Serious eye damage/eye irritation,(Category 2A), H319

Specific target organ toxicity, single exposure; Respiratory tract irritation,(Category 3), H335

Acute toxicity, oral; acute toxicity, dermal; acute toxicity, inhalation,(Category 4), H302+H312+H332

For the full text of the H-Statements mentioned in this Section, see Section 16.



Pictogram

Signal Word

warning

Hazard statements

H315

Causes skin irritation

H319

Causes serious eye irritation

H335

May cause respiratory irritation

H302+H312+H332

Harmful if swallowed, in contact with skin or if inhaled

Precautionary statements

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.2.Hazards not otherwise classified (HNOC) or not covered by GHS - none

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### 3.COMPOSITION/INFORMATION ON INGREDIENTS

<b>Substances</b>	Cinchonine
<b>Synonyms</b>	No data available
<b>Formula</b>	C <sub>19</sub> H <sub>22</sub> N <sub>2</sub> O
<b>Molecular Weight</b>	294.39 g/mol

CAS Number	Description	Concentration
118-10-5	Cinchonine	≥ 98.0 %

### 4.FIRST AID MEASURES

#### 4.1.Description of first aid measures

##### ◆General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### ◆If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### ◆In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### ◆In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### ◆If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

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

no data available

### 5.FIRE FIGHTING MEASURES

##### ◆Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### ◆Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas.



**◆ Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**◆ Further information**

no data available

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**6.ACCIDENTAL RELEASE MEASURES**

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**◆ Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**◆ Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**◆ Reference to other sections**

For disposal see section 13.

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**7.HANDLING AND STORAGE**

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**◆ Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

For precautions see section 2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**◆ Specific end use(s)**

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

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**8.EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1.Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2.Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.3.Personal protective equipment****◆ Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### ◆Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### ◆Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### ◆Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### ◆Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance / Form	solid
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point	256-266 °C
Boiling point/range	464.5°C at 760 mmHg
Melting point/range	256-266 °C
Flash point	no data available
Evaporation rate	no data available
Flammability	no data available
Upper/lower flammability	no data available
explosive limits	no data available
Vapor pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient	no data available
Auto-ignition temperature	no data available



<b>Decomposition Temp</b>	no data available
<b>log Pow</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available
<b>Other safety information</b>	no data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	no data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	no data available
<b>Conditions to avoid</b>	no data available
<b>Incompatible materials</b>	no data available
<b>Hazardous decomposition products</b>	no data available
<b>Other decomposition products</b>	no data available
<b>In the event of fire</b>	see section 5

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Oral Rat LD50>11,500mg/kg
<b>Dermal</b>	no data available
<b>Skin corrosion/irritation</b>	no data available
<b>Serious eye damage/irritation</b>	no data available
<b>Respiratory or skin sensitization</b>	The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.
<b>Germ cell mutagenicity</b>	no data available
<b>Carcinogenicity</b>	
◆ IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
◆ ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
◆ NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
◆ OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information RTECS**

Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12.ECOLOGICAL INFORMATION

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

## 13.DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

## 14.TRANSPORT INFORMATION

**DOT (US)**

This substance is considered to be non-hazardous for transport.

**IMDG**

This substance is considered to be non-hazardous for transport.

**IATA**

This substance is considered to be non-hazardous for transport.

## 15.REGULATORY INFORMATION

**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

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## New Jersey Right To Know Components

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16.OTHER INFORMATION

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### 16.1.Full text of H-Statements referred to under sections 2 and 3.

◆Acute Tox.	Acute toxicity
◆Eye Irrit.	Eye irritation
◆Skin Irrit.	Skin irritation
◆H315	Causes skin irritation
◆H319	Causes serious eye irritation
◆H335	May cause respiratory irritation
◆H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled

**Product has not been fully validated for medical applications. For research use only.**

### 16.2.Prepared by: APOLO Biochemical, Inc.

*The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. APOLO shall not be held liable for any damage resulting from handling or contact with the above product.*