

## Safety Data Sheet (SDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Aug. 3, 2017

### Section1. **PRODUCT AND COMPANY IDENTIFICATION**

#### 1.1 **Product identifier**

Product Name: Bathophenanthrolinedisulfonic acid, disodium salt  
Product Code: B004  
CAS Number: 98645-86-4  
EC Number: -

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

Company: Dojindo Laboratories  
Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan  
Telephone: +81-96-286-1515  
Fax: +81-96-286-1525  
Emergency phone number : +81-96-286-1515

#### 1.3 **Product use**

For research use only.

### Section2. **HAZARDS IDENTIFICATION**

#### 2.1 **Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### 2.2 **Label elements**

##### **Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Pictogram: None  
Signal word: None  
Hazard statement(s): None  
Precautionary statement(s): None

#### 2.3 **Other hazards**

None known.

### Section3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Product Name: Bathophenanthrolinedisulfonic acid, disodium salt  
Synonyms: 4,7-Diphenyl-1,10-phenanthrolinedisulfonic acid, disodium salt  
Concentration:  $\leq 100\%$   
Formula:  $C_{24}H_{14}N_2Na_2O_6S_2$   
Molecular Weight: 536.49

### Section4. **FIRST AID MEASURES**

#### 4.1 **Description of first aid measures**

If inhaled: If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.  
If swallowed: Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.  
In case of skin contact: Wash off with plenty of water. Remove contaminated clothing and launder before reuse.  
In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

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

No information available.

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

No information available.

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**Section 5. FIRE-FIGHTING MEASURES**

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**5.1 Extinguishing media**

Use extinguishing media appropriate for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

May emit toxic fumes under fire conditions.

**5.3 Special protective equipment for firefighters**

Wear self-contained breathing apparatus and full protective clothing if necessary.

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**Section 6. ACCIDENTAL RELEASE MEASURES**

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

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

**6.2 Environmental precautions**

Prevent further leakage. Prevent contamination of drains with product.

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

Pick up and collect product in suitable container for disposal.

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**Section 7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

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

Keep tightly closed.

Store in a cool, dark and dry place.

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**Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Engineering measures**

Ensure adequate ventilation, especially in confined areas.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.

**Personal protective equipment****Eye/face protection:**

Wear safety glasses with side-shields conforming to European Standard EN166.

**Hand protection:**

Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

**Skin and body protection:**

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

**Respiratory protection:**

Wear suitable respiratory equipment in case of inadequate ventilation.

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**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

a) Appearance:	White to pale bright red or pale brown powder
b) Odor:	Odorless
c) Odor Threshold:	No data available
d) pH:	No data available
e) Melting point/freezing point:	No data available
f) Initial boiling point and boiling range:	No data available
g) Flash point:	No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper / lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	Solubility in water (53.6 mg / 100 ml)
o) Partition coefficient: <i>n</i> -octanol / water:	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available

s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

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**Section 10. STABILITY AND REACTIVITY**

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**Stability and reactivity**

Reactivity:	Stable
Chemical stability:	Stable at a cool, dark and dry place.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Heat, sunlight, high temperature
Incompatible materials:	Strong oxidizing agents, strong acids and bases
Hazardous decomposition products:	When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.

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**Section 11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

a) Acute toxicity:	No data available
b) Skin corrosion / irritation:	No data available
c) Serious eye damage/eye irritation:	No data available
d) Carcinogenicity:	No data available

No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.

e) Reproductive toxicity:	No data available
f) STOT - SE:	No data available
g) STOT - RE:	No data available
h) Aspiration hazard:	No data available

**11.2 Potential health effects**

Ingestion:	May be harmful if swallowed.
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes serious eye irritation.

**11.3 Additional Information**

No additional information is available

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**Section 12. ECOLOGICAL INFORMATION**

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**12.1 Ecotoxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

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**Section 13. DISPOSAL CONSIDERATIONS**

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**Waste treatment methods****Product**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

**Contaminated packaging**

Dispose of as unused product. Do not reuse empty containers.

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**Section 14. TRANSPORT INFORMATION**

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**14.1 UN number**

ADR/RID: - IMDG: - IATA: -

**14.2 UN proper shipping name**

ADR/RID: -  
IMDG: -  
IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: No IMDG: No IATA: No

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**Section 15. REGULATORY INFORMATION**

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**

No information available

**15.2 Chemical Safety Assessment**

No information available

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**Section 16. OTHER INFORMATION**

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**Key to abbreviations and acronyms**

STOT-SE:	Specific Target Organ Toxicity - Single Exposure
STOT-RE:	Specific Target Organ Toxicity - Repeated Exposure
PBT:	Persistent Bioaccumulative and Toxic
vPvB:	very Persistent very Bioaccumulative and toxic
ADR:	European Agreement concerning the international carriage of Dangerous goods by Road
CAS:	Chemical Abstracts Service
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime code for Dangerous Goods
REACH:	Registration, Evaluation, Authorization and restriction of Chemicals
RID:	Regulations concerning the International transport of Dangerous goods by rail