

## SAFETY DATA SHEET

### 1. Identification of the substance/mixture and of the company/undertaking

Product name: Spirochlorine

Product code: BLK1600

CAS No.: 59978-04-0

Recommended use: For research use only. Not for human or veterinary use.

Company: Biolinks k.k.

Address: 2-12-5-710 Minamioi, Shinagawa-ku, Tokyo 140-0013, Japan

Telephone: +81-3-5767-6821

Email: info@biolinks.co.jp

Emergency telephone: +81-3-5767-6821

### 2. Hazards identification

Classification (GHS):

Acute toxicity, Oral (Category 3)

Acute toxicity, Dermal (Category 3)

Acute toxicity, Inhalation (Category 3)

Signal word: Danger

Hazard statements:

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

Precautionary statements:

P261 Avoid breathing dust.

P280 Wear protective gloves, protective clothing, eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Other hazards: Highly biologically active fungal metabolite.

### 3. Composition/information on ingredients

Component: Spirochlorine

CAS No.: 59978-04-0

Molecular Formula: C<sub>12</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>5</sub>S<sub>2</sub>

Molecular Weight: 360.80

Purity: ≥95%

#### 4. First aid measures

General advice: Seek immediate medical attention.

If inhaled: Remove to fresh air. Give oxygen if necessary.

If on skin: Remove contaminated clothing and wash thoroughly.

If in eyes: Rinse cautiously with water for at least 15 minutes and seek medical attention.

If swallowed: Do NOT induce vomiting. Seek immediate medical attention.

#### 5. Firefighting measures

Suitable extinguishing media: Water spray, CO<sub>2</sub>, dry chemical powder, foam.

Hazardous decomposition: CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>, HCl.

Protective equipment: Self-contained breathing apparatus required.

#### 6. Accidental release measures

Evacuate area. Avoid dust formation.

Wear appropriate PPE including respirator.

Collect material carefully and dispose as hazardous waste.

#### 7. Handling and storage

Handle in certified chemical fume hood.

Avoid dust generation.

Store tightly closed at -20°C in a cool, dry, dark place.

Keep away from oxidizing agents.

#### 8. Exposure controls/personal protection

Engineering controls: Certified chemical fume hood.

Respiratory protection: Approved respirator (P3 or equivalent).

Hand protection: Nitrile gloves (double gloving recommended).

Eye protection: Safety goggles or face shield.

Skin protection: Lab coat and protective clothing.

#### 9. Physical and chemical properties

Appearance: Powder

Molecular formula: C<sub>12</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>5</sub>S<sub>2</sub>

Molecular weight: 360.80

Solubility: 1 mg/mL in ethanol, methanol, DMSO

Stability: Stable under recommended storage conditions

#### 10. Stability and reactivity

Stable under normal laboratory conditions.

Avoid heat, light, moisture.

Incompatible with strong oxidizers.

### **11. Toxicological information**

Toxic if swallowed, inhaled, or absorbed through skin.  
May cause severe irritation and systemic toxicity.  
Detailed LD50 data not fully established.

### **12. Ecological information**

Toxic to aquatic organisms.  
Avoid environmental release.

### **13. Disposal considerations**

Dispose as hazardous chemical waste according to local regulations.

### **14. Transport information**

UN number: UN 2811  
UN proper shipping name: Toxic solid, organic, n.o.s. (Aspirochlorine)  
Transport hazard class: 6.1  
Packing group: III  
Marine pollutant: No  
Special precautions: Handle as toxic material during transport.

### **15. Regulatory information**

Subject to hazardous materials transport regulations.  
For research use only.

### **16. Other information**

SDS revised to reflect UN 2811 classification.  
Information provided for laboratory and transport compliance purposes.