



**Hangzhou Tianlong Biotechnology Co., Ltd.**

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

## MATERIAL SAFETY DATA SHEET

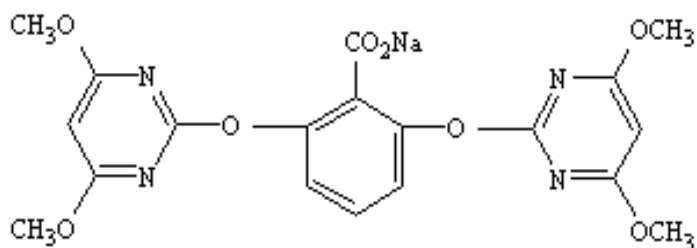
### 1. Chemical Product and company Identification

Product Name: Bispyribac-sodium

Molecular Formula: C<sub>19</sub>H<sub>17</sub>N<sub>4</sub>NaO<sub>8</sub>

Molecular Weight: 452.355

Structural Formula:



Chemical Name: Sodium 2,6-bis[(4,6-dimethoxypyrimidin-2-yl)oxy] benzoate

CAS No.: 125401-92-5

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Bispyribac-sodium	125401-92-5	95.0
Other ingredients		5.0

### 3. Hazards Identification

Adverse Human Health Effects: Effect of over exposure: We have never faced the poisoning problem attributed to bispyribac-sodium technical on laboratory researchers, factory workers and users, however, over-exposure experiments on animals showed that the administration of an extra-ordinary large quantity of bispyribac-sodium technical may cause hypoactivity, abnormal walking and prostration.

#### **4. First Aid Measures**

Skin Contact: Wash material off the skin in flowing water or shower with soap. If irritation persists, consult a physician immediately.

Eye Contact: Immediately flush with copious amount of water for at least 15 minutes.

Inhalation: Remove the victim to fresh air and keep him warm and quiet. Get a medical attention immediately. If not breathing, clear the airway and give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Induce vomiting by giving one or two glasses of water. Get a medical attention immediately. If the victim is unconscious or having convulsions, never give fluids nor induce vomiting.

#### **5. Fire-Fighting Measures**

Extinguishing Media: Water, dry chemical powder, foam or carbon dioxide

Special Fire Fighting Procedure: Use water, dry chemical powder or carbon dioxide in extinguishing. For a fire in surrounding area, apply water to cool and protect surrounding equipments. Remove containers, if feasible, from the fire area to safe place immediately. Fire fighters should wear protective gears including a positive pressure self-contained breathing apparatus. Evacuate non essential personnel.

#### **6. Accidental Release Measures**

Evacuate non essential personnel by roping the area of leak or spill. Evacuate people to upwind of the spilled area. Remove all sources of ignition; No flares, smoking, or flames in the area immediately. Wear protective gears and never work downwind. For small spills, adsorb with inert materials (e.g. dry sand or earth), then place in a waste chemical container for disposal. Flush residual spill (area) with a plenty of water. Prevent spills from entering sewers, watercourses or low areas.

#### **7. Handling and Storage**

Handling: Keep out of reach of children

When handling and spraying the product, wear duty working clothes, cap, gloves, glasses and mask to avoid contact with skin, eyes and inhalation of dust, fog and vapours. After work thoroughly wash hands, face and possible exposed areas of body and change clothing.

Storage: Keep containers tightly closed and store in a cool, dark and dry place.

#### **8. Exposure Controls/Personal Protection**

Engineering Controls: The use of local exhaust ventilations is recommended. Containers should be kept tightly closed. Make available emergency showers and eye washes in a work area.

Personal Protective Equipment: Wear chemical cartridge respirator with an

organic vapour cartridge, airline respirator, positive pressure self-contained breathing apparatus, safety goggles, gloves and boots as appropriate.

## 9. Physical and Chemical Properties

Form: Solid

Color: White

Odor: Odorless

Density: 1.29 (20°C)

Boiling Point: Not applicable

Melting Point: 223 - 224°C

Vapor Pressure:  $5.04 \times 10^{-9}$  Pa (25°C)

Solubility in Water: 7.33g/100 ml (25°C)

Solubility in Organic Solvents: Slightly to moderately soluble

Log P (o/w): -1.03 (23°C)

## 10. Stability and Reactivity

Flash Point: Not applicable

Autoignition Temperature: Not available

Explosion Limit: Not available

Stability and Reactivity: Stable under normal conditions

Hazardous Polymerization: Not available Incompatibility:

Not available

Storage Stability: Stable for 3 years if stored in a cool, dark and dry place.

## 11. Toxicological Information

Acute Toxicity:

Oral: LD<sub>50</sub> (Rat) 4,111 mg/kg (male)

2,635 mg/kg (female)

LD<sub>50</sub> (Mouse) 3,524 mg/kg (male & female)

Dermal: LD<sub>50</sub> (Rat) >2,000 mg/kg (male & female)

Inhalation: LD<sub>50</sub> (Rat) >4.48 mg/L (4 hours exp.)

Irritant Properties:

Eye irritation: (Rabbit) Slight irritant

Skin irritation: (Rabbit) Not irritant

Allergenic and Sensitizing Effects: Not sensitizing

## 12. Ecological Information

Fish Toxicity: Bluegill sunfish TLM96 >100 ppm

Daphnia magna TLM48 >100 ppm

Rainbow trout TLM96 >100 ppm

Avian Toxicity: Bobwhite quail Acute LD50 (Oral) >2,250 mg/kg

Bobwhite quail Subacute dietary LC50 >5,620 mg/kg

Mallard duck Subacute dietary LC50 >5,620 mg/kg

Earthworm Toxicity: Acute LC50 >1,000 ppm (14 days exp.)

### **13. Disposal Considerations**

Waste should be disposed of in a chemical incinerator equipped with afterburner and scrubber. Do not dump into sewers or into any body of water.

### **14. Transport Information**

Not available

### **15. Regulatory Information**

Safe phrase: Keep locked up and out of reach children.

Keep away from food, drink and animal feeding stuffs.

Do not breathe vapour/spray.

Avoid contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection.

Avoid release to the environment.

### **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.