



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

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

## MATERIAL SAFETY DATA SHEET

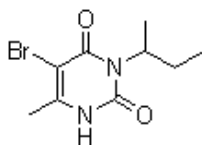
### 1. Chemical Product and company Identification

Product Name: Bromacil

Molecular Formula: C<sub>9</sub>H<sub>13</sub>BrN<sub>2</sub>O<sub>2</sub>

Molecular Weight: 261.10

Structural Formula:



Chemical Name: 5-Bromo-3-sec-butyl-6-methyluracil

CAS No.: 314-40-9

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

Address: Room 1906, Fengqi Times Tower, No.338 Fengqi East Road, Hangzhou, China, 310020

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### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Bromacil	314-40-9	95.0
Other ingredients		5.0

### 3. Hazards Identification

Harmful if swallowed or if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

### 4. First Aid Measures

If In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If On Skin Or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If Inhaled: No specific intervention is indicated as the product is not likely to be hazardous by inhalation. Consult a physician if necessary. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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

Flammable Properties

Autoignition: 420 C (788 F) May be ignited by heat or open flame.

Lower Explosive Limit: 0.135 g/L Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Extinguishing Media: Water Spray, Foam, Dry Chemical, CO<sub>2</sub>.

Fire Fighting Instructions: Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Runoff from fire control may be a pollution hazard. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

## **6. Accidental Release Measures**

Safeguards (Personnel)

Note: Review Fire-Fighting Measures and Handling (Personnel) sections before proceeding with clean-up. Use appropriate Personnel Protective Equipment during clean-up. Spill Clean Up. Shovel or sweep up. Never return to container for reuse. Scoop into bags or boxes with plastic or aluminum shovel.

Accidental Release Measures: If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial clean up.

## **7. Handling And Storage**

Handling (Personnel): Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Do not contaminate water, food or feed in storage. Store product in original container only. Store in a cool, dry place.

## 8. Exposure Controls/Personal Protection

Engineering Controls: When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements for agricultural pesticides.

Personal Protective Equipment: Some materials that are chemical resistant to this product.

## 9. Physical and Chemical Properties

Form: Solid

Color: white

Odor: odorless

Water Solubility: 815 mg/L @ 25°C

Solubility in Other Solvents: xylene v.s.; acetone v.s.; acetonitrile v.s.; ethyl alcohol v.s.; sodium hydroxide v.s.

Melting Point: 158-159°C

Vapor Pressure: 0.033 mPa @ 25°C

Partition Coefficient: Not Available

Adsorption Coefficient: 32 (acid)

## 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials: None reasonably foreseeable.

Polymerization: Polymerization will not occur.

## 11. Toxicological Information

Oral LD50 in rats is 5200mg/kg, on mice is 3040mg/kg

Dermal LD50: > 5000 mg/kg in rabbits

Inhalation LC50(4 hour): > 4.8 mg/L in rats

Irritant: slight skin irritant, and a moderate eye irritant

Skin sensitization: not a skin sensitizer in animals.

## 12. Ecological Information

Effects on birds: The 8-day dietary oral LC50 is over 10,000 ppm in mallards and quail. This indicates that it is practically nontoxic to these species.

Effects on aquatic organisms: slightly to practically nontoxic to fish. The 48-hour LC50 in bluegill sunfish is 71 mg/L, in rainbow trout is 56 75 mg/L, and in carp is 164 mg/L. The 96-hour LC50 in fathead minnows is 182 mg/L. It is not toxic to aquatic invertebrates.

Effects on other organisms: not toxic to honeybees.

## 13. Disposal Considerations

Waste Disposal: Do not contaminate water, food, or feed by disposal.

Waste resulting from the use of this product may be disposed of on the site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of

smoke.

#### **14. Transport Information**

Class: 9

UN NO.: 3077

Packing Group: III

#### **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.