



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,
WENZHOU ZHEJIANG P.R. CHINA

Tel: +86-577-88905587

Fax: +86-577-88905567

Email: info@rayfull.com

sales@rayfull.com

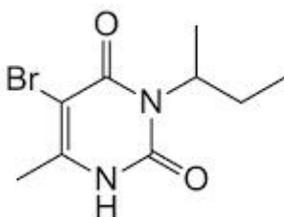
1. Chemical Product Identification

Common Name: Bromacil 80% WP

Molecular Formula: C₉H₁₃BrN₂O₂

Molecular Weight: 261.12

Structural Formula:



Chemical Name: (RS)-5-bromo-3-sec-butyl-6-methyluracil

Form: Powder

Color: Light yellow to white

CAS No.: 314-40-9

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Bromacil	314-40-9	80
Other ingredients	---	20

3. Hazards Identification

Likely routes of exposure: Eye contact, skin contact, ingestion, and inhalation.



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

Fire and explosion hazard: The material does not burn or burns with difficulty. It is not explosive. Airborne Bromacil dust may ignite. Should the chemical be involved in a general fire, ensure chemical protective clothing is used and self-contained breathing apparatus. Use water to cool containers, but water will be ineffective on fire. See point 6.

Extinguishing media: Carbon dioxide, dry chemical powders, foam and water spray.

6. Accidental Release Measures

Occupational spill: Keep spectators away. Isolate hazard area and deny entry. Stay upwind, out of low-lying areas, and ventilate closed spaces before entering. Do not wash with water. Cover spill with absorbent material. Sweep into disposal container. Do not allow spill to contaminate water supplies. Dike far ahead of liquid spills for later disposal. If spill area is on ground near trees/plants, remove top two inches of soil after initial cleaning.

Personal precautions: Chemical protective clothing usage is advised, i.e. wear neoprene gloves, cotton overalls and safety goggles.

7. Handling And Storage

Handling: Relatively safe to handle. Handle with the care and caution due crop protection chemicals. Avoid breathing in dust. Do not spill.

Storage: Store in a dry, cool covered warehouse in well-labeled containers. Store away from



food, feed stuffs, fertilizers, seed and agricultural chemicals. Avoid contact with heat and ignition sources. Keep away from children and animals. Local regulations should be complied with.

8. Exposure Controls/Personal Protection

Personal protective equipment: Respiratory: in case of insufficient ventilation, wear adequate respiratory protection.

Hand: gloves of synthetic material.

Eye: safety goggles.

Skin and body: wear suitable protective clothing, e.g.cotton overalls.

9. Physical and Chemical Properties

Appearance: Light yellow to white powder

pH: 4.0-8.0

Water content: $\leq 3.0\%$

Wetting time: $\leq 60s$

Suspensibility: $\geq 80\%$

Fineness (44 μm sieve): $\geq 98\%$

10. Stability and Reactivity

Storage stability: Stable at elevated temperatures and at low temperatures. Do not store near crop protection chemicals, feed, fertilizers or seed.

Decomposition properties: Decomposes in the presence of strong acids and poses a fire and explosion hazard in the presence of strong oxidizers. Stable in aqueous solutions.

11. Toxicological Information

Acute oral LD50 for rat: 1300 a.i.mg/kg

Acute dermal LD50 for rabbit: >5000 a.i.mg/kg

Inhalation LC50 (4 h) for rat: 5.6 a.i.mg/L

Skin irritation: slight skin irritant (rabbits)

Eye irritation: moderate eye irritant (rabbits).

Skin sensitization: Not a skin sensitiser (guinea pigs).



12. Ecological And Ecotoxicological Information

Effect on birds: low toxicity to birds, acute oral LD50 for Bobwhite quail is >2250 a.i.mg/kg.

Effect on fish: moderate toxicity to fish, acute 96 hour LC50 for Bluegill sunfish is >36 a.i.mg/L.

Effect on aquatic invertebrates: low toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is >119 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 is 0.013 a.i.mg/L.

Effect on honeybees: low toxicity to honeybees, acute 48 hour LD50 is >100 a.i.µg/bee.

13. Disposal Considerations

Product disposal: Incineration at high temperatures (1000 °C) with sufficient residence time leads to complete detoxification and destruction and is the most environmentally acceptable method for disposal. If buried, use an area far away from roots of trees and plants. Disposal site should be on level of ground and not near to streams, ponds, lakes, wells or ditches. Comply with local, state and/or federal regulations!

Package product wastes: Combustible containers should be disposed of in pesticide incinerators or in specified landfill sites. Noncombustible containers must be triple rinsed with water, punctured and disposed of in specified landfill areas. Containers are not to be reused and should be punctured, flattened and transported to a facility for recycling or disposal in approved landfill site. Comply with any local legislation applying to disposal.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

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



ZHEJIANG RAYFULL CHEMICALS CO., LTD

Tel: +86-577-88905587,88908857

Fax: +86-577-88905567

EMAIL: info@rayfull.com sales@rayfull.com

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.