



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

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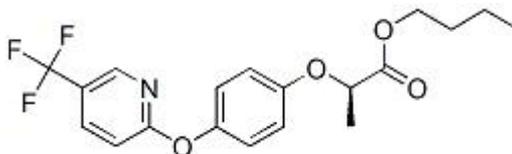
1. Chemical Product Identification

Product Name: Fluazifop-p-butyl 95% TC

Molecular Formula: C₁₉H₂₀F₃NO₄

Molecular Weight: 383.36

Structural Formula:



Chemical Name: butyl (R)-2- {4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy} propionate

Form: Homogeneous oily liquid

Color: Brown

Odor: Aromatic

CAS No.: 79241-46-6

2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Fluazifop-p-butyl	79241-46-6	95.0
Other ingredients	---	5.0

3. Hazards Identification

Inhalation: Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.



Ingestion: May be harmful if swallowed.

Hazards: Emits toxic fumes under fire conditions.

4. First Aid Measures

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

5. Fire-Fighting Measures

Extinguishing Media: If product is involved in fire, use CO₂ or dry chemical.

Fire And Explosion Hazards: Heating benefin to temperatures above 90°C (194°F) can lead to violent reaction with rapid pressure build-up. If product is involved in fire, noxious, toxic fumes may also be formed.

Fire-Fighting Equipment: Wear full protective clothing and use positive- pressure, self-contained breathing apparatus.

6. Accidental Release Measures

Small spills/leaks: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

Safe handling advice: avoid contact with skin and eyes. Do not breathe dust. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Requirements for storage rooms: keep away from food, drink and animal feeding stuffs. Keep only in the original container in a cool, well ventilated place.

Additional information: read the label before use.

8. Exposure Controls/Personal Protection



Personal Protection: Compatible chemical-resistant gloves. Chemical safety goggles.

Respirators: Government approved respirator.

Exposure Effects: Properties of this material have not yet been prepared. Any recommendations are of a general nature. Many chemicals cause irritation of the eyes, skin, and respiratory tract. In severe cases respiratory tract irritation can progress to ARDS/acute lung injury which may be delayed in onset for up to 24 to 72 hours in some cases Irritation or burns of the esophagus or gastrointestinal tract are also possible if caustic or irritant chemicals are ingested. ALWAYS contact your local poison control authority or medical professional for assistance.

9. Physical and Chemical Properties

Appearance: Homogeneous brown oily liquid

Density: 1.21g/cm³

Boiling point: 164°C

Melting Point: 5°C

Water Solubility: soluble in water 1 mg/l at 25°C

Vapor Pressure: 0.054 mPa (20°C)

10. Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Incompatibilities: Strong oxidizing agents.

Decomposition: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Combustion Products: Fire may produce irritating, corrosive and/or toxic gases.

11. Toxicological Information

Acute oral LD50 for rat: 2451 a.i.mg/kg.

Acute dermal LD50 for rat: >2110 a.i.mg/kg.

Inhalation LC50 (4 h) for rat: >5.2 a.i. mg/L.

Skin Irritation: Mildly-irritating to skin (rabbits).

Eye Irritation: Non-irritating to eyes (rabbits).

Skin Sensitization: Not a skin sensitizer (guinea pig).

12. Ecological And Ecotoxicological Information



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Effect on birds: low toxicity to birds, acute LD50 for Mallard ducks is >3960 a.i.mg/kg.

Effect on fish: moderate toxicity to fish, acute 96 hour LC50 for Rainbow trout is >1.41 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is >0.62 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 for Pseudokirchneriella subcapitata is >0.67 a.i.mg/L.

Effect on honeybees: low toxicity to honeybees, contact acute 48 hour LD50 is >200 a.i.µg/bee, oral acute 48 hour LD50 is >200 a.i.µg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is >500 a.i.mg/kg.

13. Disposal Considerations

Disposal Methods: Check governmental regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

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 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.