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# MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

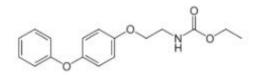
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## 1. Chemical Product Identification

Product Name: Fenoxycarb 95% TC Molecular Formula: C<sub>17</sub>H<sub>19</sub>NO<sub>4</sub> Molecular Weight: 301.34 g/mol Structural Formula:



Chemical Name: ethyl 2-(4-phenoxyphenoxy)ethylcarbamate Form: Solid Color: Light gray Odor: Sweet CAS No.: 79127-80-3

# 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Fenoxycarb	79127-80-3	95.0
Other ingredients		5.0

# 3. Hazards Identification

Symptoms of Acute Exposure: Presents a low hazard during normal industrial handling.



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Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

## 4. First Aid Measures

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

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

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: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

### 5. Fire-Fighting Measures

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire: Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



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Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. Handling And Storage

Precautions for safe handling:

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non Combustible Solids

### 8. Exposure Controls / Personal Protection

#### Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use



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respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. Physical And Chemical Properties

Form: Solid Color: Light gray Odor: Sweet Melting Point: 53-54°C Boiling point: 100.4°C Vapour pressure: 8.67×10<sup>-4</sup> mPa at 25°C

## 10. Stability And Reactivity

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

Materials to Avoid: Strong oxidizing agents.

# **11. Toxicological Information**

Acute oral  $LD_{50}$  for for rats is >10000 a.i.mg/kg. Acute dermal  $LD_{50}$  for rabbits is >2000 a.i.mg/kg. Acute inhalatio  $LC_{50}$  (4 h) for rat: >4.4 a.i.mg/L. Skin irritation: Non-irritating to skin (rabbits). Eye irritation: Non-irritating to eyes (rabbits). Skin sensitization: Non-sensitizing (guinea pigs).

# 12. Ecological And Ecotoxicological Information

Effect on birds: low toxicity to birds, acute oral LD<sub>50</sub> for Mallard ducks is >3000 a.i.mg/kg.



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Effect on fish: moderate toxicity to fish, acute 96 hour  $LC_{50}$  for Rainbow trout is 0.66 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour  $EC_{50}$  for Daphnia magna is 0.5 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour  $EC_{50}$  for Pseudokirchneriella subcapitata is 0.38 a.i.mg/L.

Effect on honeybees: low toxicity to honeybees, contact acute 48 hour  $LD_{50}$  is >204 a.i.µg/bee; Oral acute 48 hour  $LD_{50}$  is >204 a.i.µg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC<sub>50</sub> for Eisenia foetida is >425 a.i.mg/kg.

### 13. Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

### 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.