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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

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1. Chemical Product Identification

Common Name: Fenoxaprop-P-Ethyl 95% TC

Molecular Formula: C₁₈H₁₆ClNO₅

Molecular Weight: 361.78

Structural Formula:

$$CI - O$$

Chemical Name: (R)-2[4-[(6-chloro-2-benzoxazolyl)oxy]-phenoxy]-propanoic acid

Form: Powder Color: Off-white

Odor: Slight naphtha odor

CAS No.: 71283-80-2

2. Composition / Information On Ingredients

1		
Composition	CAS No.	Content %
Fenoxaprop-P-Ethyl	71283-80-2	95
Other ingredients		5

3. Hazards Identification

Risk advice to man and the environment

Irritating to skin.



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Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

Inhalation: Keep patient warm and at rest. Call a physician or poison control center immediately. Move to fresh air.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting contains petroleum distillates and/or aromatic solvents. Risk of product entering the lungs on vomiting after ingestion. Rinse out mouth and give water in small sips to drink.

5. Fire-Fighting Measures

Suitable Extinguishing Media: dry chemical, carbon dioxide (CO2), foam, water spray.

Fire Fighting Instructions: Keep people away from and upwind of spill/leak. Keep out of smoke. Fight fire from upwind position. In the event of fire and/or explosion do not breathe fumes. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated. Wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

Personal Precautions: Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods for Cleaning Up: Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional Advice: Use personal protective equipment. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

7. Handling And Storage



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Handling: Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep out of reach of children.

Storage: Keep in a dry, cool and well-ventilated place. Keep out of the reach of children Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

8. Exposure Controls/Personal Protection

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection: Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection: Wear standard coverall and type 3 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

Protective measures: Avoid contact with skin and eyes.

9. Physical and Chemical Properties

Appearance: Off-white powder

pH: 3.0-6.0

Loss on drying: $\leq 1.0\%$

Insoluble in acetone: ≤0.5%

Melting point: 86.5 ℃
Bulk density: 1.32 g/ml

Partition Coefficient: $\log P = 4.58$ (at pH 7, 20°C)

Vapour pressure: 5.3×10^{-4} mPa (25°C)

Solubility: 0.7 mg/l in water (20°C); In organic solvents: 7 g/l in n-hexane, 400 g/l in acetone,



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1380 g/l in ethyl acetate, 43.1 g/l in methanol (all at 20° C).

10. Stability and Reactivity

Stability and reactivity: Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization: Will not occur.

Conditions to avoid: Keep this product away from heat, sparks, flame, and other sources of ignition (e.g. pilot lights, electric motors, static electricity).

Materials to avoid and incompatibility: Strong acids and alkalis.

Hazardous decomposition products: None known, refer to hazardous combustion products in Section 5.

11. Toxicological Information

Acute oral LD50 for rats is >3150 a.i.mg/kg.

Acute dermal LD50 for rats is >2000 a.i.mg/kg.

Acute inhalation toxicity LC50 (4 h) for rats is >1.22 a.i.mg/L.

Skin irritation: Non-irritant to skin (rabbits)

Eye irritation: Non-irritant to eyes (rabbits)

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

12. Ecological And Ecotoxicological Information

Effect on birds: Acute oral LD50 for Japanese quail is >2000 a.i.mg/kg.

Effect on fish: Acute LC50 (96 h) for Bluegill sunfish is 0.19 a.i.mg/l.

Effects on aquatic invertebrates: Acute EC50 (48 h) for Daphnia magna is >1.06 a.i.mg/l.

Effects on algae: Acute 72 hour EC50 for Scenedemus subspicatus is 0.54 a.i.mg/l.

Effects on bees: contact acute 48 hour LD50 is >36.4 a.i.µg/bee, oral acute 48 hour LD50 is >200 a.i.µg/bee.

Effects on earthworms: Acute 14 day LC50 is >500 a.i.mg/kg.

13. Disposal Considerations

General Disposal Guidance: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control



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Agency, or the Hazardous Waste representative.

Container Disposal: Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

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.