



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

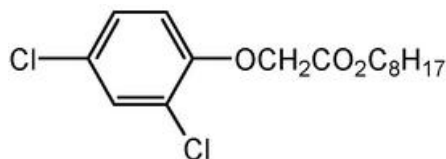
1. Chemical Product Identification

Common Name: 2, 4-D Isooctyl Ester 96% TC

Molecular Formula: $C_{16}H_{22}Cl_2O_3$

Molecular Weight: 333.249 g/mol

Structural Formula:



Chemical Name: 6-methylheptyl 2-(2,4-dichlorophenoxy)acetate

Form: Liquid

Color: Yellow brown

Odor: fuel oil odor.

CAS No.: 25168-26-7

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
2, 4-D Isooctyl Ester	25168-26-7	96
Other ingredients	---	4

3. Hazards Identification

Effects of overexposure

If in eyes: Severe irritation, redness, tearing and blurred vision.

If on skin: Redness, dryness and irritation with prolonged or repeated exposure.



If swallowed: Gastrointestinal irritation, nausea, cramps, vomiting.

If inhaled: Irritation to upper respiratory tract, weakness, headache, nausea, unconsciousness.

4. First Aid Measures

If in eyes: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

If on skin: Remove and launder all affected clothing. Wash with soap and water. If irritation persists, obtain medical attention.

If swallowed: Contact physician or poison control center immediately. Do not induce vomiting.

If inhaled: Remove person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention.

5. Fire-Fighting Measures

Fire extinguishing media: Foam, CO₂, dry chemical.

Fire fighting procedures: Wear positive-pressure breathing apparatus and full protective clothing.

Fight fire from maximum distance. Stay up-wind and out of low areas.

Usual fire and explosion: Fire fighting precautions would be the same as those used for any petroleum based oil product. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

6. Accidental Release Measures

Steps to be taken if material is released or spilled: Contain spill. Ventilate area and remove all sources of ignition. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

Wasted disposal method: Consult local environmental authorities.

7. Handling And Storage

Handling: Avoid inhalation of spray and fumes and contact with skin and eyes. Use with adequate ventilation. Wash hands before eating, chewing gum, smoking or using the toilet.

Remove clothing immediately if the herbicide gets inside. Then wash skin using nonabrasive soap. Do not apply directly to areas to surfaces where water is present, or to intertidal areas



below the mean high water mark.

Storage: Store in its original labelled containers in shaded, well ventilated areas, away from heat, sparks or other sources of ignition. Not to be stored next to food stuffs and water supplies. Keep out of reach of children and animals.

8. Exposure Controls/Personal Protection

Respiratory protection: Use with adequate ventilation. If recommended exposure limits are exceeded wear a approved respirator, following manufacturer's recommendations.

Protective gloves: Chemical resistant.

Eye protection: Safety goggles or face shield.

Other protective equipment: Eyewash station, protective clothing.

9. Physical and Chemical Properties

Appearance: Yellow brown liquid

Melting point: 12°C

Boiling point: 317°C

Bulk density: 1.14-1.17 g/ml (20°C)

Vapour pressure: 7×10^{-6} mmHg (25°C)

Solubility in water: 0.0324 mg/l (25°C)

10. Stability and Reactivity

Stability: Stable

Incompatibility: Strong oxidizers.

Condition to avoid: Excess heat and open flame.

Hazardous decomposition products: Thermal decomposition may produce oxides of carbon.

Hazardous polymerization: Will not occur.

11. Toxicological Information

Acute oral LD50 for rat: 982 a.i.mg/kg.

Acute dermal LD50 for rabbit: >4000 a.i.mg/kg.

12. Ecological And Ecotoxicological Information

Acute 96 hour LC50 for Gammarus lacustr is 2400 a.i.ug/L.



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Tel: +86-577-88905587,88908857

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

Acute 24 hour LC50 for Bluegill is 8.8 - 66.3 a.i.mg/L, acute 48 hour LC50 for Bluegill is 8.8 - 59.7 a.i.mg/L.

13. Disposal Considerations

Don't container water, food by storage or disposal. If wastes can not be disposed of by use according to label instruction, contact the appropriate state, local agency for guidance on disposal according to current environmental laws, rules 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.