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MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

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1. Chemical Product Identification

Common Name: Propanil 97% TC Molecular Formula: C₉H₉Cl₂NO Molecular Weight: 218.08 Structural Formula:

CI-

Chemical Name: 3',4'-dichloropropionanilide Form: Solid Color: Brown flaked CAS No.: 709-98-8

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Propanil	709-98-8	97
Other ingredients		3

3. Hazards Identification

Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.

4. First Aid Measures



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Inhalation: Remove source of contamination or move patient to fresh air. Keep patient under observation and obtain medical attention if necessary.

Skin contact: If irritation occurs, remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists, obtain medical assistance.

Eye contact: Immediately flush the contaminated eyes with gently flowing clean water for 20 minutes, holding the eyelid(s) open until no evidence of chemical remains. If irritation persists, obtain medical assistance.

Ingestion: Have patient rinse mouth thoroughly with water. Do not induce vomiting. Administration of gastric lavage or oxygen should be performed by qualified medical personnel. Obtain medical assistance immediately.

5. Fire-Fighting Measures

Extinguishing media:

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

Protective equipment: Mouth respiratory protective device.

6. Accidental Release Measures

Personal Precautions: Avoid contact with the skin and the eyes. Provide adequate ventilation. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Environmental precautions: Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinenet environmental permits.

Methods for Clean-Up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling And Storage

Handling: Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from



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open flames, hot surfaces and sources of ignition. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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

Engineering Controls: The use of local exhaust ventilations is recommended. Containers should be kept tightly closed. Emergency shower and eye wash in the work area is recommended to be installed.

Personal Protective Equipment: Wear chemical cartridge respirator with an organic vapour cartridge, airline respirator, positive pressure self-contained breathing apparatus, safety goggles, gloves and boots as appropriate.

9. Physical and Chemical Properties

Appearance: Brown flaked solid Water content: $\leq 0.5\%$ Acidity (as H2SO4): $\leq 0.4\%$ Melting point: 91 °C Boiling point: 351 °C Bulk density: 1.412 g/ml Partition Coefficient: log P = 2.29 (at pH 7, 20 °C) Vapour pressure: 0.0193 mPa (25 °C) Solubility: 95 mg/l in water (20 °C); In organic solvents: 664 g/l in acetone, 650 g/l in methanol, 598 g/l in ethyl acetate, 34.51 g/l in xylene (all at 20 °C).

10. Stability and Reactivity

Chemical Stability: This product is stable material under normal conditions of storage and handling. Avoid high temperatures and freezing.

Incompatible materials: Avoid strong oxidizing agents..

Hazardous polymerization: Will not occur.

Decomposition products: Product will burn and the products of complete combustion are



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chlorides and oxides of carbon and nitrogen.

11. Toxicological Information

Acute oral LD50 for rats: 960 a.i.mg/kg Acute dermal LD50 for rats: >2000 a.i.mg/kg Acute inhalation toxicity LC50 (4 h) for rats: 1.25 a.i.mg/L Skin irritation: Non-irritating to skin (rabbits) Eye irritation: Non-irritating to eyes (rabbits) Skin sensitization: Not a skin sensitiser (guinea pigs).

12. Ecological And Ecotoxicological Information

Effect on birds: Acute oral LD50 for Bobwhite quail is 196 a.i.mg/kg. Effect on fish: Acute LC50 (96 h) for Rainbow trout is 5.4 a.i.mg/l. Effects on aquatic invertebrates: Acute EC50 (48 h) for Daphnia magna is 2.39 a.i.mg/l. Effects on algae: Acute 72 hour EC50 for Selenastrum capricornutum is 0.11 a.i.mg/l. Effects on bees: contact acute 48 hour LD50 is >100 a.i.µg/bee, oral acute 48 hour LD50 is >94.3 a.i.µg/bee.

Effects on earthworms: Acute 14 day LC50 is 734 a.i.mg/kg.

13. Disposal Considerations

General: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national 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



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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.