



## 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

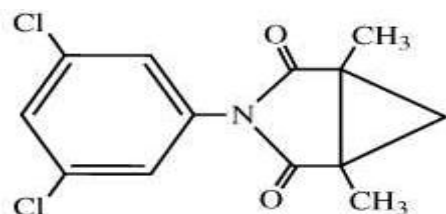
### 1. Chemical Product Identification

Product Name: Procymidone 50%WP

Molecular Formula: C<sub>13</sub>H<sub>11</sub>Cl<sub>2</sub>NO<sub>2</sub>

Molecular Weight: 284.1

Structural Formula:



Chemical Name:

*N*-(3,5-dichlorophenyl)-1,2-dimethylcyclopropane-1,2-dicarboximide (IUPAC)

Form: solid

Colour: Gray-white powder

Odour: Odorless

CAS No.: 32809-16-8

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
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Procymidone	32809-16-8	50.0
Other ingredients		50.0

### 3. Hazards Identification

Component	Symbol	R phrases
Procymidone	N	R25

More important danger for the man: None

Dangers for the environment: Toxic to aquatic

Physical-chemical dangers: None.

### 4. First Aid Measures

Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water.

Eyes: Flush with large quantities of clean tap water for at least 15 minutes.

Inhalation: Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

Ingestion: Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

Notes to physician: No specific antidote if ingested. Treat symptomatically.

### 5. Fire-Fighting Measures

Extinguishing media: To be used,dry chemical powder and foam.

Don't use: Not applicable

Particular risk: None

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

### 6. Accidental Release Measures

**Personal precautions:**



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Do not breathe in mist or fumes. Avoid contact with skin and eyes. For personal protection see Section 8.

**Environmental precautions:**

Do not allow entering drains or watercourses. The product is highly toxic to fish and aquatic species. In case of accidental spill, prevent the material from getting into lakes, rivers and other bodies of water. Isolate discharged material and keep material out of water sources. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

**Occupational spill:**

Keep spectators away and upwind. Remove all sources of flames and sparks. Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

**For spills:**

Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Label drums with its content and dispose it in accordance with local regulations. Open burning or dumping of this material is prohibited.

**7. Handling And Storage**

Handling: Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage: Should be transported and stored in clearly labelled, leakproof containers out of reach of children, away from food and drink.

**8. Exposure Controls / Personal Protection**

Provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.



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**PERSONAL PROTECTIVE EQUIPMENT:**

**Respirator:** Where exposure through inhalation may occur from use, an approved respiratory protection equipment is recommended. Respirator is not required in the case of normal application procedure of the product.

**Clothing:** Wear appropriate chemical-resistant protective clothing or other impervious clothing. Wear boots and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing. Wash clothing after use.

**Gloves:** Wear appropriate chemical-resistant protective gloves whenever the product is handled to prevent contact with this substance. Wash gloves after use.

**Eye protection:** Use safety or chemical goggles or a face shield with safety glasses.

**Emergency eye wash:** Where there is any possibility that an employee's eyes may be exposed to this substance, an eye wash fountain or appropriate alternative within the immediate work area for emergency use, must be provided. Local exhaust and general ventilation must be adequate to meet exposure standards

**9. Physical And Chemical Properties**

Appearance: Grey-white powder

Melting point: 164~166°C.

Density: 1.5-2.0 (25°C).

Wettability: wetting time is 60s max

Wet sieve test: ≥98%(44 mesh)

Dry sieve test: Qualified

Suspensibility: ≥70%

pH value: 6.0-8.0;

Flash point: Nonflammable

**10. Stability And Reactivity**

**Stability:** Considered stable in unopened original packages, under normal, dry storage conditions. Always perform a compatibility test before using with other products. Do not physically mix concentrate directly with other pesticide concentrates, always dilute first.

**Storage stability:** Stable for 2 years under normal, dry storage conditions. Avoid extremes of temperature; below 0°C and above 48°C.



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Incompatibility: Avoid contact with Concentrated alkaline materials.

**Hazardous decomposition products:** Nitrogen oxides, carbon monoxide and carbon dioxide

**Hazardous polymerization:** Will not occur.

## 11. Toxicological Information

Acute oral LD50 for rats is >5000 a.i.mg/kg.

Acute dermal LD50 for rats is >2500 a.i.mg/kg.

Acute inhalation toxicity LC50 (4 h) for rats is >1.5 a.i.mg/L.

Skin irritation: Slightly irritating to skin (rabbits).

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

Skin sensitization for guinea pig: Not a sensitizer.

## 12. Ecological And Ecotoxicological Information

Acute oral LD50 for Bobwhite quail is >4092 a.i.mg/kg.

Effect on fish: Acute LC50 (96 h) for Rainbow trout is 7.22 a.i. mg/l.

Effects on aquatic invertebrates: Acute EC50 (48 h) for Daphnia magna is >1.8a.i.mg/l.

Effects on algae: Acute 72 hour EC50 for Scenedesmus acutus is 2.6 a.i.mg/l.

Effects on bees: contact acute 48 hour LD50 is >100 a.i.µg/bee, oral acute 48 hour LD50 is >100 a.i.µg/bee.

Effects on earthworms: Acute 14 day LC50 is >1000 a.i.mg/kg.

## 13. Disposal Considerations

**Pesticide disposal:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. This product is considered a marine pollutant. Comply with local legislation applying to waste disposal.

**Container disposal:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to



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drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Do not burn the empty container. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

#### **14. Transport Information**

Hazard class: 6.1;

UN No.: 2588

#### **15. Regulatory Information**

Symbol: N

R phrases: R25

S phrases: S2/7/9/13/36/39

#### **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.