

Tel: +86-577-88905587,88908857 Fax: +86-577-88905567

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

## 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: Diafenthiuron 50% SC

Molecular Formula: C<sub>23</sub>H<sub>32</sub>N<sub>2</sub>OS Molecular Weight: 384.6 g/mol

Structural Formula:

Chemical Name: 1-tert-butyl-3-(2,6-di-isopropyl-4-phenoxyphenyl)thiourea

Form: liquid Colour: White Odour: Odorless

CAS No.: 80060-09-9

# 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Diafenthiuron	80060-09-9	50.0
Other ingredients		50.0



Tel: +86-577-88905587,88908857 Fax: +86-577-88905567

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

#### 3. Hazards Identification

May cause sensitization by skin contact. Harmful: Danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

#### 4. First Aid Measures

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre.

Swallowed: If swallowed, contact medical care immediately.

Eye: If product gets in eyes, flush eyes with running water for at least 15 minutes.

Skin: If skin contact occurs, remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before re-use.

Inhaled: Move affected person to fresh air and keep at rest until recovered.

### 5. Fire-Fighting Measures

This product is non-flammable. Extinguish warehouse and factory fires using fine-water spray or foam. When fighting a major fire wear a respirator. Do not allow fire-water to enter drains.

#### 6. Accidental Release Measures

In case of spillage it is important to take all steps necessary to: Avoid eye and skin contact. Avoid contamination of waterways.

#### 7. Handling And Storage

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

## 8. Exposure Controls/Personal Protection

**Engineering Controls:** 

No special requirements. Product is used outdoors.

Manual flagging is not permitted during aerial spraying of PEGASUS.

Personal Protection:

Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist.

When opening the container, preparing the spray and using the prepared spray wear:



Tel: +86-577-88905587,88908857 Fax: +86-577-88905567

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

Cotton overalls buttoned to the neck and wrist.

A washable hat, and Elbow length PVC gloves.

Wash hands after used. After each day's use, wash gloves and contaminated clothing.

Only use protective equipment bearing the mark.

### 9. Physical and Chemical Properties

Appearance: White liquid

Suspensibility: ≥85%

Wet sieve test (through 325mesh sieve): ≥98%

PH: 5.0-9.0

### 10. Stability and Reactivity

Stability: stable at room temperature

Corrosiveness: Non-corrosive

Flammability: This product is non-flammable and non-combustible.

### 11. Toxicological Information

Acute oral LD<sub>50</sub> for rats is 2068 a.i.mg/kg.

Acute dermal LD<sub>50</sub> for rats is >2000 a.i.mg/kg.

Acute inhalation toxicity LC<sub>50</sub> (4 h) for rats is 0.558 a.i.mg/l.

Skin irritation: Non-irritating to skin (rabbits).

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

Skin sensitization for guinea pig: Not a skin sensitiser.

### 12. Ecological And Ecotoxicological Information

Effect on birds: Acute oral LD<sub>50</sub> for Mallard is 1500 a.i.mg/kg.

Effect on fish: Acute LC<sub>50</sub> (96 h) for Rainbow trout is 0.0007 a.i.mg/l.

Effects on aquatic invertebrates: Acute EC<sub>50</sub> (48 h) for Daphnia magna is >0.5 a.i.mg/l.

Effects on bees: Contact acute (48 h) LD<sub>50</sub> is 1.5 a.i.µg/bee.

Effects on earthworms: Acute 14 day LC<sub>50</sub> is 1000 a.i.mg/kg.

### 13. Disposal Considerations

Dispose of empty, used containers by:



Tel: +86-577-88905587,88908857 Fax: +86-577-88905567

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

Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. Do not dispose of undiluted chemicals on site.

If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### 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.