



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

MATERIAL SAFETY DATA SHEET

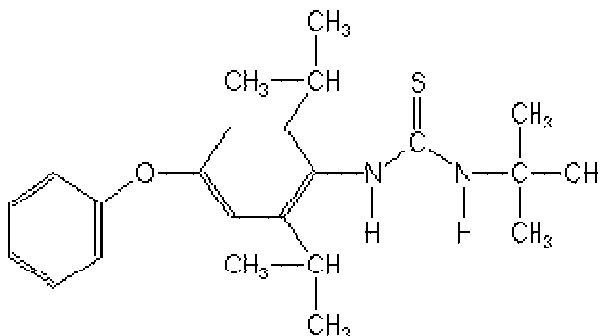
1. Chemical Product Identification

Product Name: Diafenthiuron

Molecular Formula: C₂₃H₃₂N₂OS

Molecular Weight: 384.6

Structural Formula:



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

CAS No.: 80060-09-9

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Diafenthiuron	80060-09-9	95.0
Other ingredients		5.0

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.

Procedure for spill:

- (1) Keep all bystanders away
- (2) Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimize further leakage
- (4) Dam and absorb spill with an absorbent material (e. g. sand or soil)
- (5) Shovel the absorbed spill into drums
- (6) Dispose of the absorbed material will depend upon the extent of the spill

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:

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 powder

Specific gravity: 1.050 g/cm³ (at 20°C)

Behaviour in water: Dispersible

PH: 7.0 - 7.5

Melting point: 144.6-147.7°C.

Vapor pressure: $<2 \times 10^{-3}$ mPa (25°C).

Solubility at 25°C in: acetone 320 g/l, ethanol 43 g/l, n -hexane 9.6 g/l, n

-octanol 26 g/l, toluene 330 g/l.

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:

Toxicity: This product is moderately hazardous (WHO Hazard Class II)

Swallowed: LOW TOXICITY

Tests indicate low toxicity following single doses of the undiluted product.

(LD50 = 1950 mg/kg)

Dermal absorption: LOW TOXICITY

Tests indicate a low toxicity due to skin contact of the undiluted product.

(LD50 = >4000 mg/kg)

Irritation:

Eye: Slight irritant.

Skin: Slight irritant.

Sensitization:

Skin: Not a sensitiser.

12. Ecological Information

Toxicity on aquatic organisms

LC50 (96h) : carp 0.0038mg/l

Rainbow trout 0.0007mg/l

Bluegill 0.0013mg/l

Toxicity on birds

Acute oral LD50 (mg/kg) : mallard and bobwhite quail >1500

LC50 (8days) ; mallard and bobwhite quail >1500mg/kg

Toxicity on other organisms

Bee LD50 (48h) : 2.1µg/bee(oral) , 1.5µg/bee(contact)

13. Disposal Considerations

Dispose of empty, used containers by:

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

UN NO.: 3077

Class NO. :9

Pack group: III

15. Regulatory Information

Safe phrase: Keep locked up and out of reach children.

Keep away from food, drink and animal feeding stuffs.

Do not breathe vapour/spray.

Avoid contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection.

Avoid release to the environment.

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.