

# Diniconazole -MATERIAL SAFETY DATA SHEET

## Manufacturer/information service:

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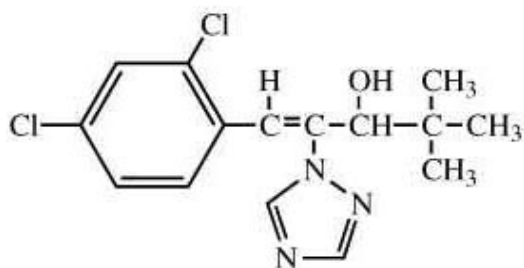
## 1. Chemical Product Identification

Product Name: Diniconazole

Molecular Formula: C<sub>15</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O

Molecular Weight: 326.22

Structural Formula:



Chemical Name:

( $\beta$ E)- $\beta$ -[(2,4-dichlorophenyl)methylene]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol

Form: crystalline solid

Colour: Off-white

Odour:odorless

CAS No.: 83657-24-3

## 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Diniconazole	83657-24-3	96.0
Others ingredients		4.0

### **3. Hazards Identification**

Signal word: caution

Toxicity class: III

Primary poute of entry: Inhalation, absorpion sking contact.

### **4. First Aid Measures**

Eyes: Flush immediately with fresh water for at least 15 minutes while holding eyes open.

Skin: Thoroughly wash with soap and ester.

Ingestion: Give water or milk to drink. Get medical aid before inducing vomiting.

### **5. Fire-Fighting Measures**

Flammable Limits: N/A

Lower explosive limit (LEL): N/A

Upper explosive limited (UEL): N/A

Fire extinguishing media: Dry chemicals, carbon dioxide for small fires. Water spray or foam for large fires.

Special fire fighting procedures: Wear self-contained breathing appearatus and full protective clothing

Unusual fire and explosion hazards: Thermal decomposition (e.g. fire) may produce carbon monoxide, carbon dioxide, and nitrogen oxides

### **6. Accidental Release Measures**

Steps to be taken in case material is released or spilled:

Appropriate protective equipment must be worn when handling a spill of this material. See Section 8, Exposure Controls/personal protection for recommendations, If exposed to material during clean-up operations, see Section 4, First Aid Measures for actions to follow.

### **7. Handling And Storage**

Avoid eye, skin, mouth contact. Store in original containers away from food stuffs, animal feed.

### **8. Exposure Controls/personal protection**

Engineering controls: Local exhaust or general ventilation to maintain exposure below PEL.

Personal protective equipment (PPE)

Protective gloves, long sleeve shirt when handling. Launder before reuse. Wear a dust mask while mixing or loading.

Work practices: Wear appropriate personal protective equipment.

## 9. Physical and Chemical Properties

Off-white crystalline solid.

Melting point 134-156°C,

Vapor pressure : 2.93mPa@20°C , 4.9mPa@25°C

Partition coefficient : KowlogP=4.3@25°C

Relative density : 1.32

Good stability.

Soluble in xylene, acetone, methanol, chloroform; less in xylene, hexane. Solubility (in water): slightly 4mg/l @25°C

## 10. Stability And Reactivity

Conditions to avoid: None

Incompatibility (materials to avoid): N/A

Stability: This material is well stable in normal condition.

Hazardous polymerization: Will not occur.

## 11. Toxicological Information

Not listed in PAN Bad Actor Chemical

Toxicity: (Rat): Oral LD<sub>50</sub> male 639 mg/kg female 474mg/kg;

Dermal > 5000 mg/kg.

Skin irritation (rabbit): non-irritant

Eye irritation(rabbit) : serious

Carcinogenic effects: Available evidence suggests that Diniconazole is not carcinogenic

## 12. Ecological And Ecotoxicological Information

Acute inhalation LC50(4h, rat) : >2770mg/l

Acute oral LD50 : Quail 1490mg/kg

Mallard >2000mg/kg

Rainbow trout LC50(96h) :>1.58mg/l

Carp LC50(96h) :4.0mg/l

Bee : acute contact : LD50>20µg /bee

### **13. Disposal Considerations**

Pesticide Disposal: Pesticide wastes are slightly toxic, Incinerate all disposal material in accordance according to the local state 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.