



# CHEMET CHEMICALS PVT. LTD.

AN ISO 9001:2008; ISO 14001:2004; OHSAS 18001:2007 CERTIFIED COMPANY

G-12 Hemkoot Building, B/H LIC Office, Opp. B.M.Institute of Mental Health, Ashram Road, Ahmedabad-380009. Gujarat. INDIA.  
Phone : 079-26586091, Fax : 079-26587111 Email : [info@chemetchemicals.com](mailto:info@chemetchemicals.com) Website : [www.chemetchemicals.com](http://www.chemetchemicals.com)

## PRODUCT SAFETY DATA SHEET OF DIFLUBENZURON 25% WP

### 1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	NAIGAR
Technical Name	DIFLUBENZURON 25 %WP
Chemical Name	DIFLUBENZURON
Use of substance/preparation	Insect Growth Regulator
Supplier	CHEMETWETS & FLOWS PVT.LTD Plot no.129/c/2, GIDC Estate, Ankleshwar_393002
Manufacturer	CHEMETWETS & FLOWS PVT.LTD Plot no.129/c/2, GIDC Estate, Ankleshwar_393002
Emergency Phone No.	02646-239490
Fax No	02646-220254
Environmental, Health and Safety Department	02646-239490 02646-220254
E-Mail ID	chemetank@gmail.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS NO	Percentage
Diflubenzuron wp	35367-38-5	25%

### 3. HAZARDS IDENTIFICATION

#### Main hazards and effects

Very toxic to aquatic organisms. No adverse effects are expected under normal conditions of use.

### 4. FIRST AID MEASURES

#### Swallowing

Do not induce vomiting. Rinse mouth with water. Obtain medical attention.



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## Inhalation

Remove to fresh air. Obtain medical attention.

## Skin contact

Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists.

## Eye contact

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists.

## 5. FIRE FIGHTING MEASURES

**Flash point** 110°

## Hazardous combustion products

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

## Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

## Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus.

## Extinguishing media

Suitable:	CO <sub>2</sub> Dry chemical Foam Water fog
Unsuitable	water spray

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable protective equipment.

### Environmental precautions

Prevent from entering sewer system, surface water or soil. May be harmful to aquatic life.

### Methods for cleaning up

Sweep up and collect in a suitable container for disposal.



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## 7. HANDLING AND STORAGE

**Handling** Avoid dust formation. Use only with adequate ventilation.

**Storage** Store in a cool, dry place

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limit Values

#### Consult local authorities for acceptable provincial values

Component	Type	Value	Remark
Particulars not otherwise regulated	8 hours	3,0 mg/m <sup>3</sup>	Repairable dust
	8 hours	10,0 mg/m <sup>3</sup>	Total inhalable dust
	AGW	3,0 mg/m <sup>3</sup>	Repairable dust
	AGW	10,0 mg/m <sup>3</sup>	Total inhalable dust
	OEL-TWA	4,0 mg/m <sup>3</sup>	Repairable dust
	OEL-TWA	10,0 mg/m <sup>3</sup>	Total inhalable dust
	TWA	3,0 mg/m <sup>3</sup>	Repairable dust
	TWA	10,0 mg/m <sup>3</sup>	Total inhalable dust
	VLA-ED	3,0 mg/m <sup>3</sup>	Repairable dust
	VLA-ED	10,0 mg/m <sup>3</sup>	Total inhalable dust
	NGV	5,0 mg/m <sup>3</sup>	Repairable dust
	NGV	10,0 mg/m <sup>3</sup>	Total inhalable dust
	MACTWA	5,0 mg/m <sup>3</sup>	Repairable dust
	MACTWA	10,0 mg/m <sup>3</sup>	Total inhalable dust

### Personal Protection

#### Respiratory protection

In case of occurrence of dust respiratory protective equipment required.

#### Hand protection / protective gloves

Chemical resistant protective gloves.



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## Eye protection

Safety glasses with side shields.

## Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

## ENGINEERING CONTROLS

### Ventilation

Local exhaust suggested preventing dust buildup.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical state	Powder
Color	White to Yellow
Odor	Practically odorless

### Other Properties

Boiling point	Not applicable
Melting point	Not applicable
pH	(approximately) 8 Concentration 10 g/l
Density	2.09 g/cm <sup>3</sup> at 25°C
Bulk Density	0.3 g/cm <sup>3</sup>
Solubility in water	Dispersible
Flash point	110°C
Thermal decomposition	None
Auto ignition temperature	>110°C
Dynamic viscosity	Not applicable
Oxidizing properties	Not applicable

## 10. STABILITY AND REACTIVITY

Stability	This product is stable under normal storage and handling conditions
Incompatible materials	Oxidizing agents. Strong acids. Strong bases



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## Hazardous combustion products

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

## Hazardous polymerization

Will not occur

## 11. TOXICO LOGICAL INFORMATION

### Swallowing

Test results  
Acute toxicity LD50 Rat  
Result : > 10.000 mg/kg

### Skin Absorption

Test results  
Acute toxicity LD50 Rat  
Result : > 20.000 mg/kg

### Inhalation

Test results  
Acute toxicity LD50 Rat  
Result : > 3.52mg/l  
Exposure time : 4 h

### Skin Contact

Test results  
Skin irritation Species : Rabbit  
Classification : Not irritating

### Eye Contact

Test results  
Eye irritation Species : Rabbit  
Result : Mild irritation

### Sensitization

Test results Species : Guinea pigs  
Result: Not sensitizing.

### Mutagen city

Assessment : Negative

### TOXICITY TO REPRODUCTION/FERTILITY

Assessment : Negative



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## 12. ECOLOGICAL INFORMATION

<b>Component eco toxicology</b> <b>Diflubenzuron</b> <b>Acute toxicity fish</b>	LC50 – Rainbow trout (Oncorhynchus mykiss) Result: >106,4 mg/l Exposure time: 96 h
<b>Component ecotoxicology</b> <b>Diflubenzuron</b> <b>Acute toxicity fish:</b>	LC50 – Zebra fish (Brachydanio rerio) Result: >64,8 mg/l Exposure time: 96 h
<b>Component ecotoxicology</b> <b>Diflubenzuron</b> <b>Acute toxicity to plants</b>	LC50 – Selenastrum capricornutum) Result: >80 mg/l Exposure time: 72 h
<b>Component ecotoxicology</b> <b>Diflubenzuron</b> <b>Acute toxicity to aquatic invertebrates</b>	LC50 – Water flea (Daphnia magna) Result: 0.0026 mg/l Exposure time: 48 h

## 13. DISPOSAL CONSIDERATION

### General

Avoid discharge to sewers and natural waters, Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

## 14. TRANSPORT INFORMATION

Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s.
Class	9
UN ID	UN 3077
Packing group	III
Technical description	(Diflubenzuron)
<b>Only regulated by air Into, Out of or Within the States in containers 881.8 lbs (400kg) or greater.</b>	

## 15. REGULATORY INFORMATION UNITED STATES

Risk phrases	R50 Very toxic to aquatic organisms Classification specific : None
Safety phrases	S2 Keep out of reach of children. S13 Keep away from food, drink and animal feeding stuffs. S20/21 When using does not eat, drink or smoke. S29 Do not empty into drains. S60 This material and/or its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instruction/Safety data sheets



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## 16.OTHER INFORMATION

None.

\* STP Standard temperature and pressure

\*W/W Weight/Weight....

## DISCLAIMER

All reasonable care has been exercised in processing your request for information on the chemical listed in this Material Safety Data Sheet. No warranty is made, either expressed or implied and Perisseuma Projects does not hold itself liable for any injury, illness, loss or misinterpretation arising from the use of this data. CHEMET CHEMICALS PVT. LTD makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

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