



SHREEJI PESTICIDES PVT. LTD
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

Material safety data sheet Difenoconazole 25% EC

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SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product Details**
Product Name : Difenoconazole 25% EC
Formulation type : Emulsifiable concentrate
Sector : Fungicide
Hazardous component:CGA169374

1.2 Company Identification

Manufacturer

Name and Address: Shreeji Pesticides Pvt. Ltd.
Unit-1, 69/P, Vil. Manjusar, Tal Savli, Dist. Vadodara
Unit-II, 73/P, Vil. Manjusar, Tal. Savli, Dist. Vadodara

Telephone Number: 0267-264701/2/3/4

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	% w/w	Hazard Symbol	Risk Phrases
Difenoconazole	119446-68-3	25%	N, Xn	20-50/53
Solvent C-9	54742-85-6	45.0%	Xi, Xn	10.20.36.37.38
Dodecyl benzenesulfonic Acid Calcium salt	26264-06-2	2.0%	Xi	36/38
Castor oil Polyglycol ether	8001-79-4	13.0%		None
Cyclohexanone	108-94-1	15%	Xn	10-20

SECTION 3 : HAZARD IDENTIFICATION

Health Hazard:

Harmful: May cause lung damage if swallowed

Environmental hazards in case of accident (spillage/Leakage):

Very toxic to fish, daphnia and algae.

SECTION 4 : FIRST AID MEASURES

General :

Remove the affected person from the danger zone to a wellventilated room or to fresh air, and protect from undercooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.

Eye contact :

Rinse under running water for several minutes and immediately call a physician.

Ingestion:

Repeatedly administer medicinal charcoal in a large quantity of water.
NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

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Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Medical Instructions Antidote: No specific antidote is known! Apply symptomatic therapy.

Experiences Specific to Man: No case of human poisoning is on record.

SECTION 5: FIRE FIGHTING MEASURES

Combustibility: yes

Extinguishing media

Suitable Extinguishing Media:

Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

Fire fighting

Special Hazards during Fire Fighting:

Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Protective Equipment for Fire Fighting:

Use respirator to protect from fumes.

Swiss Fire Prevention Class: F2 L

SECTION 6: ACCIDENTAL RELEASE MEASURE

Environmental Protection Measures following Accidents:

Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

Keep away from sources of ignition.

SECTION 7: HANDLING AND STORAGE

Handling information

General:

Shake well before use. Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Keep away from sources of ignition. Take precautionary measures against static discharges (transfer operations: check grounding). May form explosive vapour-air mixtures. Do not eat, drink or smoke while working. In addition to the measures taken usually in the chemical works like splash proof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

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Storage information

Special Instructions for Storage:

Store the product in closed original containers. Protect from light and humidity.

Storage Compatibility with other Products:

Store separately from feed, food and stimulants.

Storage temperature

Max. Storage Temperature : 35 °C

Min. Storage Temperature : 10 °C

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

GERMANY (isobutanol)

MAK (DFG): 100 ppm; 300 mg/m³

Notes: C

GERMANY (1,2,4-trimethyl-benzene)

MAK (DFG): 100 mg/m³; 20 ppm

Notes: C

SWITZERLAND (isobutanol)

MAK (SUVA): 150 mg/m³; 50 ppm

STEL (SUVA): 100 ppm; 300 mg/m³

Notes: C

SWITZERLAND (1,2,4-trimethyl-benzene)

MAK (SUVA): 125 mg/m³; 25 ppm

USA (isobutanol)

TWA (ACGIH): 152 mg/m³; 50 ppm

IDLH (NIOSH): 1600 ppm

USA (1,2,4-trimethyl-benzene)

TWA (ACGIH): 123 mg/m³; 25 ppm

Personal Protective Equipment in General

Personal Protective Equipment Breathing Protection

Personal Protective Equipment Hand Protection

Personal Protective Equipment Eye Protection

Personal Protective Equipment Body Protection

Change working clothes daily.

In case of heavy exposure, wear:

Gas mask with Universal filter

Chemical-resistant gloves

Goggles or face-shield

Heavy duty cotton or synthetic

fabric working Clothes (e.g.

overalls). Heavy-duty shoes or

boots.



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Precautionary Measures after Work

Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Pale to brown coloured liquid
Odour :	Characteristic odour
Solubility :	Emulsifiable in water
Boiling Point :	No data available
Melting Point :	No data available
Vapour Pressure :	No data available
Percentage Volatiles:	No data available
Evaporation Rate:	No data available
Vapour Density:	No data available
Specific Gravity:	0.950 – 1.000
Flash Point :	above 42.5 °C
Autoignition: temperature	No data available
Flammable limit:	No data available

SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid :	Direct sunlight, heat and extreme temperature
Incompatible :	No data available
Decomposition Products :	May evolve carbon monoxide and nitrogen oxides upon combustion.
Hazardous polymerization :	None
Stability :	Stable under normal conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicity Data (Applaud 250g/L SC)		
Acute Oral LD ₅₀ :	(Rat)	> 2,000 mg/kg
Acute Dermal LD ₅₀ :	(Rat)	> 2,000 mg/kg
Inhalation LC ₅₀ :	(Rat) male	> 4.57 mg/L (4 hr) (based on Buprofenzin)
Eye Irritation :	Irritating (by CPL calculation)	
Skin Irritation :	Irritating (by CPL calculation)	
Carcinogenicity :	Not carcinogen	
Reproductive Effect :	No effect	
Effects of overexposure :	No data available	
Chronic effects :	Buprofenzin did not produce genetic changes in rec-assay and Ames test.	
Target organs :	Organ toxicity in rat was not observed.	
Medical Conditions Generally Aggravated by exposure :	No data available	



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Difenoconazole:

In repeated dosing study for 13 weeks, rat fed difenoconazole exhibited body weight depression, increase of relative liver weight and enlargement of hepatocyte. Dogs difenoconazole for 2 years exhibited body weight depression, and increase of serum alkaline phosphatase activity and relative liver weight. Rat fed difenoconazole for 2 years showed body weight depression. Any clinical parameters showing organ toxicity were not observed. In histopathological examination, an enlargement of hepatocyte and increase of smooth-surfaced endoplasmic reticulum. difenoconazole did not produce tumor in both sexes of rat.

No birth defects were noted in rats and rabbits given difenoconazole orally during pregnancy even at amount which produced body weight depression on the mothers. No effects were seen on the ability on male and female rats to reproduce when fed difenoconazole for 2 successive generations.

Difenoconazole did not produce genetic changes in rec-assay and Ames test. In safety pharmacology studies, difenoconazole showed any specific pharmacological effects.

SECTION 12 : ECOLOGICAL INFORMATION

Mobility & Bioaccumulation :	No data available
Biodegradability :	No data available
Aquatic Toxicity :	
LC ₅₀ (96 hours) :	(Rainbow trout - <i>Salmo gairdneri</i>) > 630 mg/l
	\$630 mg/l (NOEL)
EC ₅₀ (96 hours) :	(<i>Daphnia Magna</i>) > 234 mg/L
	\$234 mg/l (NOEL)

SECTION 13 : DISPOSAL INFORMATION

Dispose of according to applicable national environment laws and / or local regulation.

SECTION 14 : TRANSPORT INFORMATION

Follow the precaution indicated in the storage and handling section. Follow all regulations in your country.

SECTION 15 : REGULATORY INFORMATION

Pesticides Act :	Class III -	Harmful
CPL Regulations :	Class –	Harmful, Irritant
Risk Phrases :	R20	Harmful by inhalation.
	R38	Irritating to skin.
Safety Phrases :	S1/2	Keep out of reach of children
	S36/37/39	Wear suitable protective clothing, gloves and eye protection

SECTION 16 : OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.