

DIFENOCONAZOLE

Indofil Industries Ltd

Chemwatch: 4030-93 Version No: 7.1 Safety Data Sheet

Chemwatch Hazard Alert Code: 2

Issue Date: 23/12/2022 Print Date: 08/05/2024 L.GHS.IND.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	DIFENOCONAZOLE
Chemical Name	Not Available
Synonyms	C19-H17-Cl2-N3-O3; 1H-1,2,4-triazole, 1-[(2-(2-chloro-4-(4-chlorophenoxy)phenyl)-4-methyl-1,3-dioxolan-2-yl)methyl]-; CGA 169374; azole pesticide/ fungicide
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains difenoconazole)
Chemical formula	C 19 H 17 Cl 2 N 3 O 3
Other means of identification	Not Available
CAS number	119446-68-3

Relevant identified uses of the substance or mixture and uses advised against

	Systemic fungicide with protective and curative action with novel broad-range activity protecting the yield and crop quality by
Relevant identified uses	foliar application or seed treatment. [~Regeant ~]
	Fungicide.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Indofil Industries Ltd
Address	Kalpataru Square, 4th Floor, Kondivita Road, Off. Andheri Kurla Road, Andheri (E) Maharashtra, India. Mumbai 400 059 India
Telephone	1800-120-003-004
Fax	Not Available
Website	www.indofil.com
Email	customercare@indofil.com

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	+918000403230	
Other emergency telephone numbers	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Min Max Flammability 1 Toxicity

Chemwatch Hazard Ratings

0 = Minimum **Body Contact** 0 1 = LowReactivity 1 2 = Moderate 3 = HighChronic 0 4 = Extreme



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Chemwatch: 4030-93 Version No: 7.1

Page 2 of 10 DIFENOCONAZOLE

Issue Date: 23/12/2022 Print Date: 08/05/2024

Classification

Acute Toxicity (Oral) Category 4

Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

Precautionary statement(s) Prevention

P264

Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P301+P312

IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

CAS No	%[weight]	Name
119446-68-3	>95	difenoconazole

Mixtures

See section above for composition of Substances

SECTION 4 First aid measures

Description of first aid measures

boodinpinon or mot and mo				
	If this product comes in contact with the eyes:			
	Immediately hold eyelids apart and flush the eye continuously with running water.			
Eye Contact	 Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. 			
	▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.			
	▶ Transport to hospital or doctor without delay.			
	▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
	If skin or hair contact occurs:			
Skin Contact	▶ Flush skin and hair with running water (and soap if available).			
	▶ Seek medical attention in event of irritation.			
	▶ If fumes or combustion products are inhaled remove from contaminated area.			
	▶ Lay patient down. Keep warm and rested.			
	· Lay patient down. Neep warm and rested.			
Inhalation	▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid			
	procedures.			
	 Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket 			
	mask as trained. Perform CPR if necessary.			
	▶ Transport to hospital, or doctor, without delay.			

Chemwatch: 4030-93 Page 3 of 10 Issue Date: 23/12/2022 Print Date: 08/05/2024 Version No: 7.1

DIFENOCONAZOLE

Ingestion

- ▶ IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- ▶ For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- ▶ In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting • Alert Fire Brigade and tell them location and nature of hazard. ▶ Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions Combustion products include: Fire/Explosion Hazard carbon monoxide (CO) carbon dioxide (CO2) hydrogen chloride phosgene nitrogen oxides (NOx) other pyrolysis products typical of burning organic material

Chemwatch: **4030-93**Version No: **7.1**

Page 4 of 10 DIFENOCONAZOLE

Issue Date: **23/12/2022**Print Date: **08/05/2024**

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Environmental hazard - contain spillage.
	▶ Clean up waste regularly and abnormal spills immediately.
Major Spills	Environmental hazard - contain spillage. Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended
 in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including
 secondary explosions)
- ▶ Minimise airborne dust and eliminate all ignition sources.
- Other information
- Store in original containers.

Conditions for safe storage, including any incompatibilities

Suitable container

▶ Polyethylene or polypropylene container.

Storage incompatibility

High nitrogen compounds are often unstable or explosive; the tendency is exaggerated by attachment of azide or diazonium groups, or a high-nitrogen heterocyclic nucleus.

Avoid reaction with oxidising agents















- X Must not be stored together
- 0 May be stored together with specific preventions
- + May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
DIFENOCONAZOLE	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
difenoconazole	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
difenoconazole	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

MATERIAL DATA

Page **5** of **10**

Issue Date: 23/12/2022 Print Date: 08/05/2024

Version No: 7.1

DIFENOCONAZOLE

concentrations encountered in the workplace.

Exposure controls

Appropriate engineering Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. controls Individual protection measures, such as personal protective equipment "Safety glasses with side shields Eye and face protection ▶ Chemical goggles. Skin protection See Hand protection below The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Hands/feet protection Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. **Body protection** See Other protection below Other protection Overalls.

Respiratory protection

Type -P Filter of sufficient capacity.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

^{* -} Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- · Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- \cdot Use approved positive flow mask if significant quantities of dust becomes airborne.
- \cdot Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	White to light beige crystalline solid; does not mix well with water (16 mg/l, 25 C).		
Physical state	Divided Solid	Relative density (Water = 1)	1.4 (20 C)
Odour	Not Available	Partition coefficient noctanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	>300
Melting point / freezing point (°C)	78.6	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	406.3
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available

Not Applicable

DIFENOCONAZOLE

Surface Tension (dyn/cm Upper Explosive Limit (%) Not Applicable Not Applicable or mN/m) Lower Explosive Limit (%) Not Applicable Volatile Component (%vol) Negligible Vapour pressure (kPa) 33 nPa (25 C) Gas group Not Available Solubility in water Partly miscible pH as a solution (1%) Not Available

VOC g/L

Not Applicable

SECTION 10 Stability and reactivity

Vapour density (Air = 1)

Version No: 7.1

Reactivity	See section 7	
Chemical stability	▶ Unstable in the presence of incompatible materials.	
Possibility of hazardous reactions	See section 7	
Conditions to avoid	See section 7	
Incompatible materials	See section 7	
Hazardous decomposition products	See section 5	

SECTION 11 Toxicological information

Information on toxicological effects

Information on toxicologica	cicological effects			
Inhaled	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Inhalation of dusts, generated by the material during the course of normal handling, may produce severe damage to the health of the individual. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. Inhalation of dusts, generated by the material, during the course of normal handling, may produce severely toxic effects; these may be fatal. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.			
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Aromatase inhibitors (including triazoles and azoles) produce several side effects including mood swing, depression, weight gain, hot flushes, vaginal dryness, bloating, early onset of menopause.			
Skin Contact	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.			
Еуе	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Exposure to the material may cause concerns for human fertility, on the basis that similar materials provide some evidence of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects. Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, on the basis that similar materials tested in appropriate animal studies provide some suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects. Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. Azole antifungals cause hepatotoxicity by inducing the expression of liver cytochrome P450 enzymes (CYP1, CYP2, and CYP3 families), which in turn increases the abundance of reactive oxygen species in liver cells, resulting in lipid peroxidation and DNA damage. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.			
	TOXICITY	IRRITATION		
difenoconazole	Dermal (rabbit) LD50: >2010 mg/kg ^[2]	Eye (rabbit): non-irritating *		
	Inhalation (Rat) LC50: >0.045 mg/L4h ^[2]	Skin (rabbit): non-irritating *		

Oral (Rat) LD50: 1453 mg/kg^[2]

Issue Date: 23/12/2022

Print Date: 08/05/2024

Chemwatch: 4030-93 Page 7 of 10 Issue Date: 23/12/2022 Print Date: 08/05/2024 Version No: 7.1

DIFENOCONAZOLE

Leaend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Non-sensitising to skin (guinea pig) * NOEL (1 y) for dogs 1 mg/kg daily * NOEL (2 y) for rats 20 ppm, equivalent to 1 mg/kg b.w.

DIFENOCONAZOLE

ADI 0.01 mg/kg b.w. The acute toxicity of difenoconazole was low. Overall, in short-term studies with orally-administered difenoconazole, the signs of toxicity observed in mice, rats and dogs were similar, with reduced body-weight gain and increased liver weights being common features. concentrations of blood protein were observed in dogs given diets containing difenoconazole at 6000 ppm, equal to 157.8 mg/kg bw per day. For the short-term dietary studies, the NOAELs were: in studies of up to 90 days in rats, 200 ppm (equal to 17 mg/kg bw per day) on the basis of increased hepatocellular hypertrophy and liver weight; in a 90-day dietary study in mice, 200 ppm (equal to 34.2 mg/kg bw per day) on the basis of clinical signs of toxicity and changes in liver weight and increased incidence of centrilobular hepatocellular hypertrophy; in a 28-week study in dogs, 1000 ppm (equal to 31.3 mg/kg bw per day) on the basis of cataracts and liver-weight changes; in a 12-month study in dogs, 100 ppm (equal to 3.6 mg/kg bw per day) on the basis of reduced body-weight gain; in a 4-week study of dermal toxicity with difenoconazole in rats, 100 mg/kg bw per day, on the basis of minimal centrilobular hepatocellular hypertrophy, minimal to moderate thyroid follicular cell hypertrophy and skin lesions at the site of application. Long-term feeding studies in rats and mice fed with difenoconazole confirmed that the primary target organ was the liver. In mice, there was very high, treatment-related mortality at the beginning of the 18-month study. barbiturate-type inducer of metabolizing enzymes in the mouse liver. The NOAEL in long-term studies in rats was 20 ppm, equal to 1.0 mg/kg bw per day, on the basis of reduced body-weight gains during the first year in males and females, reduced platelet counts in males and hepatic centrilobular hypertrophy in males and females at 500 ppm, equal to 24 mg/kg by per day. Difenoconazole was tested for genotoxicity in an adequate range of assays. both in vitro and in vivo. Difenoconazole causes an increase in the incidence of hepatocellular adenomas and carcinomas in mice (but not in rats) by a non-genotoxic mode of action, the nature of which has not been established but which resembles that for phenobarbital in its liver enzyme-inducing characteristics.

[* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council]

DIFENOCONAZOLE

Toxicity Class WHO III *

Acute Toxicity	*	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

X - Data either not available or does not fill the criteria for classification Leaend:

Data available to make classification

SECTION 12 Ecological information

Toxicity

difenoconazole	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	0.8mg/l	Not Available
	EC50	48h	Crustacea	0.8mg/l	Not Available
	EC50(ECx)	48h	Crustacea	0.8mg/l	Not Available
	EC50	96h	Algae or other aquatic plants	0.001mg/L	4

Leaend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

log Kow 819 (pH 4.2, pH 0.4, 25 C)

The material is classified as an ecotoxin* because the Fish LC50 (96 hours) is less than or equal to 0.1 mg/l

* Classification of Substances as Ecotoxic (Dangerous to the Environment)

Appendix 8, Table 1

Compiler's Guide for the Preparation of International Chemical Safety Cards: 1993 Commission of the European Communities

Ecotoxicology: Birds Acute oral LD50 for mallard ducks >2150 mg/kg LC50 (9 d) for bobwhite quail >4760 ppm Fish LC50 (96 h) for rainbow trout 0.8 mg/l Bees: Non-toxic to honeybees: LD50 (oral) >187 ug/bee Daphnia EC50 (48 h) 0.8 mg/l Other beneficial spp. Environmental fate: Plants: Two metabolic paths have been identified, one by a triazole route to triazolylalanine and triazolylacetic acid; the other by hydroxylation of the phenyl ring followed by conjugation. Soil and water: Low mobility in soil; undergoes slow degradation. Difenoconazole residues are reasonably persistent in soils and are expected to be present in the soil at harvest time for treated root and tuber crops, difenoconazole itself does not appear as a residue in the rotational crop. Aerobic soil degradation rates were influenced by the nature of the soil, temperature, moisture status of the soil and dose when [14C]difenoconazole was subjected to laboratory soil incubation. Estimated aerobic soil metabolism half-lives for difenoconazole at 20 °C ranged from 63 to 700 days (n=12) with a median of 181 days. (20?54% of dose) were major sinks for the [14C] label. the phenyl and triazole label positions, e.g., 0.8?4.6 % of the dose for the triazole label and 3.4?33 % for the phenyl label.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark.

Chemwatch: **4030-93**Version No: **7.1**

Page 8 of 10 DIFENOCONAZOLE

Issue Date: 23/12/2022 Print Date: 08/05/2024

For azole-containing substances.

Triazole fungicides share common metabolites, the triazole compounds 1,2,4-triazole (free triazole), triazole alanine, and triazole acetic acid. In environmental fate studies, all three forms of triazole (1,2,4-T, TA, and TAA) have been found and there is evidence that the three can inter-convert in soil and aquatic systems As a plant metabolite, and given the wide use of triazole-derivative pesticides (used as fungicides on many crops as well as on turf) free triazole is found in a variety of food commodities, including animal byproducts.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility	
	No Data available for all ingredients	

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty. Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.

SECTION 14 Transport information

Labels Required



Marine Pollutant

Land transport (UN)

14.1. UN number or ID number	3077			
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains difenoconazole)			
14.3. Transport hazard class(es)	Class 9 Subsidiary Hazard Not Applicable			
14.4. Packing group	III			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions 274; 331; 335; 375 Limited quantity 5 kg			

Air transport (ICAO-IATA / DGR)

3077			
Environmentally hazardous substance, solid, n.o.s. (contains difenoconazole)			
ICAO/IATA Class	9		
ICAO / IATA Subsidiary Hazard	Not Applicable		
ERG Code	9L		
	Environmentally hazardous substantial ICAO/IATA Class ICAO / IATA Subsidiary Hazard	Environmentally hazardous substance, solid, n.o.s. (collaboration of the collaboration of the	

Chemwatch: 4030-93 Page 9 of 10 Version No: 7.1

DIFENOCONAZOLE

14.4. Packing group	III		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions	A97 A158 A179 A197 A215	
	Cargo Only Packing Instructions	956	
	Cargo Only Maximum Qty / Pack	400 kg	
	Passenger and Cargo Packing Instructions	956	
	Passenger and Cargo Maximum Qty / Pack	400 kg	
	Passenger and Cargo Limited Quantity Packing Instructions	Y956	
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains difenoconazole)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	azard	9 Not Applicable
14.4. Packing group	III		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number F-A , S-F Special provisions 274 335 966 967 969 Limited Quantities 5 kg		

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
difenoconazole	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
difenoconazole	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

difenoconazole is found on the following regulatory lists

Not Applicable

Additional Regulatory Information

Not Applicable

National Inventory Status

Hallottal Involvery Status		
National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (difenoconazole)	
Canada - DSL	No (difenoconazole)	
Canada - NDSL	No (difenoconazole)	
China - IECSC	No (difenoconazole)	
Europe - EINEC / ELINCS / NLP	No (difenoconazole)	
Japan - ENCS	No (difenoconazole)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	

Issue Date: 23/12/2022

Print Date: 08/05/2024

DIFENOCONAZOLE

Issue Date: 23/12/2022 Print Date: 08/05/2024

National Inventory	Status		
Philippines - PICCS	No (difenoconazole)		
USA - TSCA	No (difenoconazole)		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	No (difenoconazole)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

SECTION 16 Other information

Revision Date	23/12/2022
Initial Date	16/04/2005

SDS Version Summary

Version	Date of Update	Sections Updated
6.1	07/07/2020	Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Ecological Information - Environmental, Exposure controls / personal protection - Personal Protection (hands/feet), Handling and storage - Storage (storage incompatibility), Identification of the substance / mixture and of the company / undertaking - Use
7.1	23/12/2022	Classification review due to GHS Revision change.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors ▶
- BEI: Biological Exposure Index •
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

This document is copyright.