INDOFIL CHEMICALS COMPANY

KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA)

TEL. NO.: 00-91-22-6799 9100 FAX NO.: 00-91-22-2589 83 57 / 59



MATERIAL SAFETY DATA SHEET

2-R&D-MSDS- AGRO-FP- 429

SECTION 1.	PRODUCT IDENTIFICAT	ION
Chemical Name	PROPICONAZOLE 1-[{2-(2,4-dichlorophenyl)-4- propyl-1,3-dioxolan-2-yl}- Methyl]-1H-1,2,4-triazole	Company Identification INDOFIL CHEMICALS COMPANY KOLSHET,OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO.: 00-91-22-6799 9100 FAX NO.: 00-91-22-2589 83 57 / 59
Trade Name	Dhan	
Synonyms	-	Chemical classification: Fungicide
IUPAC		
CAS Number	60207-90-1	
Formula	C ₁₅ H ₁₇ Cl ₂ N ₃ O ₂	

SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS

COMPONENT NAME	CAS REGISTRY NO	CONCENTRATION
Propiconazole	60207-90-1	25% EC

SECTION 3. HAZARDS IDENTIFICATION				
EMERGENCY OVERVIEW Physical state : Appearance : Yellow coloured clear liquid . Pungent Odour Odor threshold : NA				
	Harmful or fatal if swallowed - can enter lungs and cause damage Contact can cause eye or skin irritation			
IMMEDIATE HEALT				
Eye contact	NA NA			
Skin contact				
Ingestion Inhalation	NA NA			
DELAYED OR OTHE		ברים ברים ברים ברים ברים ברים ברים ברים		
Target organs		,10		
raiget organs				
An "X" in the box adjacent to the hazard title indicates OSHA Hazard classification. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication standard (29 CFR 1910.1200)				
OSHA Health Hazard C	,	OSHA Physical Hazard Classification		
Toxic Highly Toxic		Flammable Oxidizer		
Irritant Sensitizer		Combustible		
Corrosive Carcinogenic		Explosive Organic Peroxide		
F		Pyrophoric unstable		
Organic peroxide water-reactive				
SECTION 4: FIRST AID MEASURES				
Eye	Hold eye open and	rinse gently with fresh water for 15-20 minutes. If onsult a medical physician.		
Skin		ted clothing. Rinse skin immediately with plenty of		
water for 15-20 minu		utes.		

Ingestion	Give a large quantity of medical charcoal in plenty of water. Seek medical attention if a large column of concentrate was ingested or if irritation should persist.
Inhalation	Move person to fresh air. Give artificial respiration if required and call ambulance.
Notes to physician	

SECTION 5 : FIRE	SECTION 5 : FIRE FIGHTING MEASURES		
NFPA Flammability			
Classification			
NFPA RATINGS	Health: 1 Flammability:1 Reactivity: 1		
OSHA classification			
Flash point	NA		
Flammability			
(Explosive limits)			
Auto ignition	Not established		
Temperature			
Hazardous			
Combustion			
products			
Extinguishing Media	Media suitable to extinguish the supporting or surrounding area.		
Protection of Fire	Wear NIOSH / MSHA approved self-contained breathing apparatus and		
Fighters	full protective clothing.		
	A LA		
Special Properties	NA		
Unusual Hazards	NA		
SECTION 6: ACC	CIDENTAL RELEASE MEASURES		
Protective	Eliminate all sources of ignition in the vicinity of the spill. If this material		
Measures	is released into the work area, evacuate the area immediately.		
Spill Management	Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil or entering sewage and drainage system or any body of water. Clean the spills immediately. Cover the entire spill with absorbing material and place in to compatible disposal container. Scrub area with hard water detergent. Pick up wash with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in disposal containers seal containers and arrange for disposition.		

SECTION 7: HANDLING AND STORAGE Handling A spill can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks or any other potential ignition sources. Use only with adequate ventilation and personal protection. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not reuse empty bag When performing repairs and maintenance on contaminated equipment. Keep unnecessary persons away from area. Eliminate all potential ignition sources. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide adequate ventilation. Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling. Store the material in a well ventilated, secure area out of reach of Storage children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

SECTION 8: EX	XPOSURE CONTROLS / PERSONAL PROTECTION
Engineering controls	Provide exhaust ventilation or other engineering controls. An emergency eye wash station and safety shower should be located near the work-station .
Personal Protective Equipment	Ingestion : Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
	Eye Protection: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.
	Skin Contact : Where contact is likely wear chemical – resistant gloves, coverall, socks and chemical resistant foot wear. For over head exposure, wear chemical resistant headgear.
	Inhalation: Use approved chemical cartridge respirator with organic vapor cartridges and pre-filter or a supplied air respirator.
	Work practices: users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing. Deluge safety shower and eye wash station should be located in work area

Occupational exposure limits

Component	Limit	
Propiconazole	NA	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical state		Appearance	Yellow coloured clear liquid . Pungent Odour
Odor threshold	NA	PH	6.48 (10% soln.)
Specific gravity (water=1)		Solubility in water	
Vapor pressure @ (mm Hg)	NA	Vapor density (air=1)	1.03 g/ml
Viscosity		Boiling point (°C)	NA
Melting point	NA		

SECTION 10: STABILITY AND REACTIVITY	
Chemical stability	Stable
Conditions to Avoid	
Material Incompatibility	
Hazardous Decomposition Products	Data not available
Hazardous Polymerization	Data not available

SECTION 11: TOXICOLOGICAL INFORMATION		
Acute Oral toxicity LD 50 (Oral-Rat) – ND		
Acute Dermal toxicity		
Acute Inhalation toxicity		
Eye irritation: This material is irritating to the eyes Skin irritation: This material is irritating to the skin		

SECTION 12:ECOLOGICAL INFORMATION	
Ecotoxicity	Contamination of both terrestrial and marine environments should be
	avoided.
Environmental	No data
fate	

SECTION 13: DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers and residues according to Local, State, Federal and environmental Regulations

SECTION 14: TRANSPORT INFORMATION		
	Not regulated as a hazardous material by any mode of transportation. It is not a marine pollutant. Export water (IMO) : Not regulated Air (ICAO / IATA) : Not regulated	
DOT Shipping Name	UN NO2902	
DOT Hazard class	6.0	
DOT identification number	No data	
DOT packing Group	III	
DOT additional information	No data	

SECTION 15: REGULATORY INFORMATION				
TSCA Inventory	No data			
SARA 311/312 Hazard Identification	Immediate (acute) health effects: yes Delayed (chronic) health effects : yes Reactive: yes This product contains the substances subject to the reporting requirements of SARA title 3, section 313 and 40 CFR part 372.			
SARA 302/304 Emergency planning and notification	No data			
SARA 313 Toxic chemical notification and Release reporting	This product contains the following components in concentrations above that are listed as toxic chemicals in 40 CFR part 372 pursuant to the requirements of section 313 of SARA.			
CERCLA	No data			
Clean air act (CAA)	Not applicable			

SECTION 16: OTHER INFORMATION						
NFPA RATINGS	Health : 1	Flammability :1	Reactivity :1			
HMIS RATINGS	Health : 1	Flammability:1	Reactivity :1			
	0 = Least 1= slight 2= Moderate 3= High 4=Extreme					

ABBREVIATIONS

STEL	Short term exposure limit
ACGIH	American conference of Government Industrial Hygienists
NIOSH	National institute of safety and health
SARA	Super fund Amendments and Reauthorization Act
TWA	Time weighted average
OSHA	Occupational safety and health
NFPA	National Fire protection agency
HMIS	Hazardous Materials information system
RCRA	Resource conservation Recovery act
TSCA	Toxic substance Control Act
WHMIS	Work place Hazardous Materials information system
IRAC	International Agency for Research on Cancer

MANUFACTURE'S / SUPPLIER'S DATA

MANOTACTORE OF COLLECT O DATA						
Name of Firm: INDOFI						
Mailing Kolshet, Off Swami Vivekanand Road, Address: Azad nagar, Sandoz Baug P.O. Thane – 400 607.		Gat No. 194, Village – Gahunje, Tal. Maval, Dist. Pune.	S-26 (T), MIDC, Bhosari, Pune – 411 026.			
Telephone 6799 9100	Telex	Telephone 22767 5084	Telephone 22712 2302			
Fax 2589 8357	Telegraphic Code	Fax 22767 5083	Fax 22712 9242			
Local Bodies Involved	Collector of Thane					

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