

#### INDOFIL INDUSTRIES LIMITED

KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO. : 00-91-22- 67999100 FAX NO. : 00-91-22-2589 83 57 / 59

### 2-R&D-MSDS-FP- 556

### MATERIAL SAFETY DATA SHEET

<b>SECTION 1.</b>	PRODUC	T IDENTIFICAT	ON	
Chemical Name	PROPARGI BIFENTHRI		INDC KOLS ROAI AZAD	<b>pany Identification</b> DFIL INDUSTRIES LIMITED SHET, OFF SWAMI VIVEKANAND D, D NAGAR, SANDOZ BAUG P.O., NE – 400 607. MAHARASHTRA (INDIA)
			TEL.	NO. : 00-91-22- 67999100 NO. : 00-91-22-2589 83 57 / 59
Trade Name				
Synonyms	PROPARGI BIFENTHRI		GRO	UP: Sulfur Ester Acaricide Pyrethroid Ester
IUPAC	Propargite: (1RS,2RS;1RS,2SR)-2-(4-tert- butylphenoxy) cyclohexyl prop-2-ynyl sulfite Bifenthrin: 2-methylbiphenyl-3-ylmethyl (1 <i>RS</i> ,3 <i>RS</i> )-3-[( <i>Z</i> )-2-chloro-3,3,3- trifluoroprop-1-enyl]-2,2- dimethylcyclopropanecarboxylate			
CAS Number	2312-35-8 82657-04-3		CLA	SS: Acaricide
Formula	C19 H20 O4 S C23H22CIF3O2			
<b>SECTION 2.</b>	COMPOS	TION / INFORMA		N OF INGREDIENTS
COMPONENT N	IAME	CAS REGISTRY NO		CONCENTRATION
PROPARGITE	2312-35-8			50%
BIFENTHRIN	82657-04-3			5%
Other Ingredients				Q.S.

# SECTION 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Physical state: Suspension Liquid

**Colour:** Off-white to White

**INGESTION:** Harmful if swallowed.

**INHALATION:** Harmful if inhaled.

**EYE CONTACT:** May cause eye irritation.

SKIN CONTACT: May cause irritation.

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

## **IMMEDIATE HEALTH EFFECTS**

Eye contact	Slightly irritation to eyes		
Skin contact	Moderately irritating		
Ingestion	Harmful if swallowed		
Inhalation	Harmful if inhaled		

### DELAYED OR OTHER HEALTH EFFECTS

Target organs	No data.	
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 Classification OSHA Physical Hazard Classification		

Toxic	Highly Toxic	Flammable		Oxidizer	
Irritant	Sensitizer	Combustible			
Corrosive	Carcinogenic	Explosive		Organic Peroxide	
		Pyrophoric		unstable	
		Organic peroxi	ide	water-reactive	

<b>SECTION 4 : FIR</b>	ST AID MEASURES
Еуе	Irrigate the eyes with large amount of water or normal saline occasionally lifting upper and lower lids until no evidence of chemical remains and obtain a medical help.
Skin	Remove contaminated clothing and shoes immediately. Wash contaminated area with soap or mild detergent and large amount of water until no effects of chemical remains. If symptoms persist get medical help. Propargite may be absorbed through the skin with a resultant toxic effect.

Ingestion	Remove by gastric lavage and catharsis; maintain blood pressure and airway, give oxygen if respiration is depressed. Do not perform gastric
	lavage if victim is unconscious. Get medical attention immediately.
Inhalation	Remove the patient from the exposure area to fresh air immediately. If breathing has stopped perform the artificial respiration. Keep person
	warm and rest. Get medical attention immediately
Notes to physician	No specific antidote. Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES				
NFPA Flammability				
Classification				
NFPA RATINGS	Health: Flammability: Reactivity:			
<b>OSHA</b> classification	No data			
Flash point	NA			
Flammability	NA			
(Explosive limits)				
Auto ignition	Not available			
Temperature				
Hazardous	During a fire, irritating and possibly toxic gases like carbon dioxide,			
Combustion	carbon monoxide, nitrogen oxides, sulfur dioxide, hydrogen chloride,			
products	may be generated by thermal decomposition or combustion			
Extinguishing Media	Dry chemical, CO <sub>2</sub> , Water spray, standard foam. For larger fire, use			
	water spray, fog or standard foam.			
Protection of Fire	Wear self-contained breathing apparatus and protective clothing to			
Fighters	prevent contact with skin and eyes.			
Special Properties	Avoid breathing fumes from fire exposed material. Do not allow run-off			
	from fire fighting to enter drains or water courses. Cool closed containers			
	exposed to fire with water.			
SECTION 6 : ACC	IDENTAL RELEASE MEASURES			
Protective	Ensure suitable personal protection during removal of spillages. This			
Measures	means wearing a face mask that gives protection against organic			
	vapours, eye protection, chemically resistant gloves, boots and			
	coveralls.			
Spill Management	Absorb the material in the sand, soil, diatomaceous earth or suitable			
	absorbent. Place in suitable material and remove to safe place or			
	dispose of in an incinerator approved for chemicals.			

SECTION 7 : HANDLING AND STORAGE			
Handling & Storage	Use appropriate (impervious) clothing, gloves and closed footwear to		
procedure	prevent the repeated contact with skin.		
	Use flash proof and dust resistant goggles to prevent the contact with		
	eyes.		
	Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well-ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition.		

SECTION 8: EX	SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION		
Engineering controls	<b>Ventilation:</b> Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. Use mechanical exhaust ventilation at sources of air contamination such as open process equipment.		
Personal Protective Equipment	<ul> <li>Eye / face Protection: Safety Glasses or goggles.</li> <li>Skin protection: Avoid skin contact. Rubber gloves should be worn whenever this material is handled. Wash hands with clean water.</li> <li>Body protection: Avoid skin contact. Wear impervious clothing and closed foot ware.</li> <li>Respiratory Protection: Wear suitable mask.</li> </ul>		
Occupational exposure limits (exposure limit information)			

Occupation	occupational exposure mints (exposure mint mornation)					
Component	Limit	TWA	STEL	Ceiling	Notation	
Propargite + Bifenthrin	OSHA	No data	No data	No data	No data	
SE	ACGIH					

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
Physical state	Suspension Liquid	Colour	Off-white to white	
Odor	Slight	pH (1%)	6 To 7.5	
Specific gravity	1.075	Solubility in water	Forms suspension in water	
Vapor pressure @ 25°C	Not applicable	Vapor density	Not applicable	
Viscosity	Not applicable	Boiling point	No data	
Melting /	No data	Evaporation	Not applicable	
Freezing point		rate		

SECTION 10: STABILIT	SECTION 10: STABILITY AND REACTIVITY			
Chemical stability	This material is chemically stable under normal and anticipated storage and handling conditions.			
Conditions to Avoid	Excessive temperatures.			
Material Incompatibility	Incompatible with strong acids and alkaline material.			
Hazardous Decomposition Products	Decomposition will evolve toxic and Irritant vapors. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.			
Hazardous Polymerization	The product will not undergo polymerization reaction.			

SECTION 11: TOXICOLOGICAL INFORMATION			
Acute toxicity (Assessment largely or completely based on data for Propargite and			
Bifenthrin Active Substance)			
Acute Oral toxicity	LD <sub>50</sub> for Propargite technical is 2843 mg/kg (rats)		
	LD <sub>50</sub> for Bifenthrin technical is 54.5 mg /kg (rats)		
Acute Dermal toxicity	LD <sub>50</sub> for Propargite technical is >4000 mg/kg (rabbits)		

	LD <sub>50</sub> for Bifenthrin technical is > 2000 mg/kg (rabbits)	
Acute Inhalation toxicity	LC <sub>50</sub> for Propargite technical is 0.05 mg/l (4 h) (rats)	
	LC <sub>50</sub> for Bifenthrin technical is 1.01 mg/l (4 h) (rats)	
Eye irritation (Rabbit): Sever eye irritating		

Skin irritation(Rabbit) : Sever skin irritating

Skin Sensitization(Guinea Pig): No skin sensitization - Bifenthrin and Propargite

# **SECTION 12: ECOLOGICAL INFORMATION**

Acute toxicity (Assessment largely or completely based on data for Propargite and Bifenthrin Active Substance)

Aquatic Toxicity:			
Fish LC <sub>50</sub> (96 h)	<b>Propargite:</b> Rainbow Trout 0.118 mg/l ; Bluegill sunfish 0.168 mg/l ; cat		
	fish 0.004 mg/l		
	Bifenthrin: Rainbow Trout 0.00015 ; Bluegill sunfish 0.00035 mg/l		
Daphnia (EC <sub>50</sub> ,48h)	Propargite: 0.092 mg/l ; Bifenthrin: 0.00016 mg/l		
Bird			
Dietary LC <sub>50</sub>	Mallard duck > 4640 mg/kg ; Bobwhite Quail 3401 mg/kg – Propargite		
	Mallard duck 1280 mg/kg ; Bobwhite Quail 4450 mg/kg daily- Bifenthrin		
Honey Bee			
LD <sub>50</sub> (Oral)	0.1 μg/bee for <b>Bifenthrin</b> ;		
LD <sub>50</sub> (Contact)	0.01462 µg/bee for <b>Bifenthrin</b> ; 15 µg/bee <b>Propargite</b>		

# **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL PROCEDURES: Waste disposal should be in accordance with existing federal, state and local environmental regulations. Dispose of empty, used containers in approved incineration plant in approved land filling area or in a disposal pit away from desirable plants and their roots and water courses. On-site disposal of undiluted product is unacceptable.

SECTION 14: TRANSPORT INFORMATION					
DOT Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SUSPENSION LIQUID, N.O.S.				
	(PROPARGITE + BIFETHRIN)				
DOT Hazard class	Class 9 UN Number 3082				
DOT identification number	Packaging Group III				
DOT additional information	The product is not classified as Dangerous goods. No special transport conditions are necessary unless required by other regulations.				

SECTION 15: REGULATORY INFORMATION				
Work place classification	Hazard categories under criteria of SARA Title III rules (40 CFR part 370) Immediate acute health Y Delayed chronic health N Fire N Reactive N Sudden Release of pressure N			
SARA TITLE 3 : SECTION 311/312 Hazard Identification	Harmful, Toxic			

SARA TITLE 3 : SECTION 302/304 Emergency planning and notification	
SARA TITLE 3: SECTION 313 Toxic chemical notification and Release reporting	This product does contain chemicals which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of title III of the superfund amendments and Reauthorization act of 1986 and 40 CFR part 372
CERCLA (40 CFR 302.4)	
Waste classification	No data
Clean Air Act	No data

SECTION 16: OTHER INFORMATION					
NFPA RATINGS	Health : 1 Flammability : Reactivity :				
HMIS RATINGS	Health : Flammability : Reactivity :				
	0 = Least 1= slight 2= Moderate 3= High 4=Extreme				
ABBREVIATIONS	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					
Name of Firm: INDOFIL INDUSTRIES LIMITED					
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Local Bodie	es Involved	Collector of T	hane	

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