

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- 469

MATERIAL SAFETY DATA SHEET

SECTION 1.	PRODUC	T IDENTIFICAT	ION		
Chemical	PROPARGITE 57% EC		Company Identification		
Name	IUPAC: 2-(IUPAC: 2-(4- <i>tert</i> -butylphenoxy)		INDOFIL INDUSTRIES LIMITED	
	cyclohexyl p	prop-2-ynyl sulfite		SHET, OFF SWAMI VIVEKANAND	
			ROAI		
			AZAD NAGAR, SANDOZ BAUG P.O.,		
			THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO. : 00-91-22- 67999100		
				NO.: 00-91-22-67999100 NO.: 00-91-22-2589 83 57 / 59	
Trade Name	MITEX			10 00-51-22-2303 03 37 7 33	
Synonyms	PROPARGI	TE	GRO	UP: Sulfur Ester Acaricide	
IUPAC	2-(4-tert-but	ylphenoxy)			
	cyclohexyl p	prop-2-ynyl sulfite			
CAS Number	2312-35-8		CLASS: Acaricide		
Formula	C19 H20 O ₄ S	C19 H20 O ₄ S			
SECTION 2.	COMPOS	ITION / INFORM	ATIO	N OF INGREDIENTS	
COMPONENT N	IAME	CAS REGISTRY NO	CONCENTRATION		
PROPARGITE		2312-35-8	57%		
Mix. xylene		1330-20-7	Q. S.		
Blend of non ioni	ic	-		10%	
surfactants					
SECTION 3.		S IDENTIFICA	ΓΙΟΝ		
EMERGENCY OVERVIEW					
Physical state : Liquid					
Colour : Dark Brown Liquid					
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	Slightly irritation to eyes			

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 C	Classification	OSHA Physical Hazard Classification				

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

SECTION 4 : FIR	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.

SECTION 5 : FIRE FIGHTING MEASURES				
NFPA Flammability				
Classification				
NFPA RATINGS	Health: Flammability: Reactivity:			
OSHA classification	No data			
Flash point	29°C			
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 ₂ , 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		
SECTION 6 : ACC	CIDENTAL 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				
procedure p U e k la k fe	Jse appropriate (impervious) clothing, gloves and closed footwear to prevent the repeated contact with skin. Jse flash proof and dust resistant goggles to prevent the contact with eyes. Keep the product in original container tightly closed and correctly abeled. 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	Ventilation: 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	 Eye / face Protection: Safety Glasses or goggles. Skin protection: Avoid skin contact. Rubber gloves should be worn whenever this material is handled. Wash hands with clean water. Body protection: Avoid skin contact. Wear impervious clothing and closed foot ware. Respiratory Protection: Wear suitable mask. 				

Occupational ovi	ancura limite	(exposure limit information)	۱.
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Component	Limit	TWA	STEL	Ceiling	Notation
Propargite	OSHA ACGIH	No data	No data	No data	No data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES					
Physical state	Liquid	Colour	Dark Brown		
Odor	Slight solvent odour	рН (1%)	4.5 To 7.2		
Specific gravity	1.026	Solubility in water	Emulsifiable in water. Miscible in organic solvents		
Vapor pressure @ 25°C	Not applicable	Vapor density	0.0102 (air = 1)		
Viscosity	Not applicable	Boiling point	235-264°C		
Melting / Freezing point	No data	Evaporation rate	Not applicable		

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 will evolve toxic and Irritant vapors.	
Decomposition		
Products		
Hazardous	Will not occur	
Polymerization		

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity (Assessment largely or completely based on data for active substance)
Acute Oral LD ₅₀ (Rat) : 2800 mg/kg
Acute Dermal LD ₅₀ (Rat) : 4000 mg/kg
Inhalation LD ₅₀ (4 h) 0.05 mg/l
EYE Irritation (Rabbit) :Irritant
SKIN Irritation (Rabbit) : Irritant

Skin Sensitization (Guinea Pig) :Not a skin sensitizer

Aquatic toxicity :	ely or completely based on data for active substance)
Fish	
LC ₅₀ (96 h,)	Rainbow Trout 0.043 mg/l
	Bluegill sunfish 0.081 mg/l
Daphnia EC ₅₀ (48 hr)	0.014 mg/L
Bird	
Acute Oral, LD ₅₀	Mallard ducks > 4640 mg/kg
Honey Bee	
LD ₅₀ (oral)	> 100 µg/bee;
LD ₅₀ (contact)	47.92 µg/bee.
Earthworm	
LC ₅₀ (14 d)	378 mg/kg soil

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		
	Marine pollutant : Yes	
DOT Shipping Name	DOT Technical Name : PROPARGITE	
DOT Hazard class	3 (Flammable liquid) UN number 1307	
DOT identification number	Packaging Group: III	
DOT additional information	Classified as Dangerous goods for transport by road and Rail.	

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			
STEL	Short term exposu	ıre limit	
ACGIH	American conferen	nce of Government Indust	rial Hygienists
NIOSH	National institute of safety and health		
SARA	Super fund Amend	dments and Reauthorization	on Act
TWA	Time weighted ave	erage	
OSHA	Occupational safe	ty and health	
NFPA	National Fire prote	ection agency	
HMIS	Hazardous Materials information system		
RCRA	Resource conserv	ation Recovery act	
TSCA	Toxic substance Control Act		
WHMIS	Work place Hazardous Materials information system		
IRAC	International Agen	cy for Research on Cance	er

MANUFACTURE'S / SUPPLIER'S DATA

Name of Firm: INE	S LIMITED	
Mailing Kolshet, Off Swami Vivekanand Road, Address: Azad nagar, Sandoz Baug P.O. Thane – 400 607.		
Telephone 679991	00 Telex	Telephone 020 767 5084
Fax 2589 8	357 Telegraphic Code	Fax 22767 5083
Local Bodies Involv	ed Collector of Th	hane

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