

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-AGRO-FP-400

### MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION				
Chemical	MYCLOBUT	ΓANIL 10% WP	Company Identification	
Name	<b>IUPAC</b> : 2-1	p-chlorophenyl-2-(1	INDOFIL INDUSTRIES LIMITED	
		zol-1-ylmethyl)		SHET, OFF SWAMI VIVEKANAND
	hexanenitrile	e	ROA	,
				D NAGAR, SANDOZ BAUG P.O., NE – 400 607. MAHARASHTRA
			(IND	
			`	NO.: 00-91-22- 67999100
				NO.: 00-91-22-2589 83 57 / 59
Trade Name	BOON			
Synonyms	MYCLOBUT	ANIL	GRO	UP: Conazole fungicide
CAC Number	000074 00 (	<u> </u>	CI A	SS: FUNGICIDE
CAS Number	088671-89-0	71-89-0		55: FUNGICIDE
Formula		<sub>5</sub> H <sub>17</sub> CI N <sub>4</sub>		
<b>SECTION 2:</b>	COMPOS	ITION / INFORM/	<b>4TIO</b>	N OF INGREDIENTS
COMPONENT NAME		CAS REGISTRY NO		CONCENTRATION
MYCLOBUTANIL		088671-89-0		10%
Other ingredients				90%
	•	•	•	-

### **SECTION 3: HAZARDS IDENTIFICATION**

# EMERGENCY OVERVIEW

Physical state: Powder

**Colour:** White to Off-white **INGESTION:** Harmful if swallowed.

**INHALATION:** Harmful

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

**DELAYED EFFECTS:** No delayed effects known.

# **IMMEDIATE HEALTH EFFECTS**

Eye contact	This product may be mildly irritating to eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any lasting effects,
Skin contact	May irritate skin. The dermal toxicity of this product is low. However, skin contact should be avoided. This product is not a skin sensitizer.
Ingestion	The acute toxicity of this product is low, but it may be harmful if a large amount is swallowed.
Inhalation	May be a slight respiratory irritant.

DELAYED OR OTHER HEALTH EI	FFECTS
Target organs No data.	
An "X" in the box adjacent to the hazard	d title indicates OSHA Hazard classification. If no "X" is
present, the product does not exhibit th	e 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
can a magan ma	
	Pyrophoric unstable
	Organic peroxide water-reactive

<b>SECTION 4: FIR</b>	SECTION 4: FIRST AID MEASURES		
Eye	Flush with plenty of water for atleast 15 minutes. Seek medical attention		
	if irritation begins and / or persists.		
Skin	Promptly wash the contaminated skin using soap or water, remove the		
	affected clothing and wash the skin with soap and water.		
Ingestion	If swallowed, repeatedly induce vomiting by giving victim a tablespoon of		
	salt in glass of warm water. Until vomiting fluid is clear.		
Inhalation	Remove the exposed person from the area to the fresh air, perform		
	artificial respiration.		
Notes to physician	No specific antidote. Treatment of exposure should be directed at the		
. ,	control of symptoms and the clinical condition of the patient.		

CECTION E. FID	E FIGURING MEACURES		
	E FIGHTING MEASURES		
NFPA			
Flammability			
Classification			
NFPA RATINGS	Health: 1 Flammability: Reactivity:		
OSHA	No data		
classification			
Flash point	Not applicable		
Flammability	Non flammable		
(Explosive limits)			
Auto ignition	Not applicable		
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	Dry chemical, CO <sub>2</sub> , Water spray, standard foam. For larger fire, use		
Media	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	Contain run-off. Remain upwind. Avoid breathing smoke. Use water		
	spray to cool container exposed to fire.		
<b>SECTION 6: AC</b>	CIDENTAL RELEASE MEASURES		
Protective	Ensure suitable personal protection during removal of Spillages. Good		
Measures	standards of industrial and personal hygiene are recommended. This		
	means wearing a facemask 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.		
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SECTION 7: HAI	NDLING AND STORAGE
Handling &	Store in a cool, dry location. Do not store near food, feed or fertilizers.
Storage procedure	Do not store above 35°C. Do not contaminate ponds, lakes, streams or any source of water. Keep out of reach of children. Handle in a well-ventilated area. Local exhaust recommended. Use personal protective equipment to prevent contact with skin and eyes. Do not drink, eat or smoke while handling. Wash hands before eating, drinking or smoking. Impervious rubber.  The minimum recommended storage temperature required for this material is 1°C. The maximum recommended storage temperature for this material is 49°C.
Protective Gloves Eye Protection Ventilation Respiratory Protection	Chemical safety goggles. Local exhaust strongly recommended. Wear respiratory protection in the absence of adequate ventilation. NIOSH/MSHA approved for organic vapours and dust/mist/fume

<b>SECTION 8:</b>	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	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 exposure limits (exposure limit information)

Component	Limit	TWA	STEL	Ceiling	Notation
Myclobutanil	OSHA	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	No data	No data
	ACGIH				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Solid Powder	Colour	White to Off-white
Odor	Characteristics odour	pH (1%)	6 To 7.5
Bulk density	0.3 to 0.35 g/cc	Solubility in water	Forms Suspension in water
Vapor pressure	NA	Vapor density	NA
Knematic viscosity (Temp. 40°C)	NA	Boiling point	NA
Melting / Freezing point	NA	Evaporation rate	NA

SECTION 10: STABILITY AND REACTIVITY		
Chemical stability	This material is chemically stable under normal condition of use.	
	Incompatible with alkaline materials. Oxides of carbon and	
	nitrogen may be given off when exposed to extreme heat or fire.	
Conditions to Avoid	Excessive temperatures.	
Material Incompatibility	Open flames, sparks, ignition sources, dampness.	
Hazardous	Toxic and flammable fumes produced: oxides of nitrogen and	
<b>Decomposition Products</b>	carbon.	
Hazardous	Not known to occur.	
Polymerization		

SECTION 11: TOXICOLOGICAL INFORMATION		
Acute Oral toxicity	Not Available	
Acute Dermal toxicity	Not Available	
Acute Inhalation toxicity	Not Available	
Eye irritation: Non-irritant		
Skin irritation: Mild irritant		

<b>SECTION 12:</b>	ECOLOGICAL INFORMATION
Ecotoxicity	Myclobutanil 10% WP is toxic to aquatic organisms. Do not contaminate
	domestic or irrigation water supplies, lakes, streams, ponds or rivers.
Environmental	Persistance (Half-life): Soil: 66 days
fate	In animals undergoes oxidation at the butyl group to a ketone and an alcohol with partial conjugation to a glucoside. Following administration, rapidly in the faeces and urine. In plants, metabolism is the same as in animals.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL PROCEDURES: The product is suitable for burning in an enclosed system. The product is suitable for processing by an approved recycling facility or can be disposed of at any licensed waste disposal site or can be removed by approved waste contractors. Use of these methods is subjected to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SECTION 14: TRANSPORT INFORMATION					
	Marine pollutant: Yes				
DOT Shipping Name	DOT Technical Name: Myclobutanil Technical				
DOT Hazard class	Class: 9 UN Number: 3077				
DOT identification number	No data				
DOT Packing Group	III				
DOT additional information	No data				

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 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: INDOFI			
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Fax 2589 8357	Telegraphic Code	Fax 22767 5083	
Local Bodies Involved	Collector of Tha	ne	

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