MSDS: Carbendazim 50 WP

INDOFIL INDUSTRIES LIMITED

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- 423

SECTION 1.	PRODUCT IDENTIFICAT	ION
Chemical Name	Benfil 50 WP CARBENDAZIM 50 WP	Company Identification INDOFIL INDUSTRIES LIMITED 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	Benfil 50 WP	
Synonyms	Carbendazol	Chemical classification: Benzimidazole derivative
IUPAC	Methyl benzimidazol-2- ylcarbamate	
CAS Number	10605-21-7	
Formula	$C_9H_9N_3O_2$	

SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS

COMPONENT NAME	CAS REGISTRY NO	CONCENTRATION
Carbendazim	10605-21-7	50%
China Clay		
Precipitated Silica		
Surface Active Agents		

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state : Solid

- Colour : White to slightly tan compound Odor
 - : No applicable odour

Harmful or fatal if swallowed - can enter lungs and cause damage Contact can cause eye or skin irritation

Rev:0

MSDS: Carbendazim 50 WP **IMMEDIATE HEALTH EFFECTS**

Eye contact	Moderately irritation to eyes.		
Skin contact	Repeated or prolonged contact can cause irritation or dermatitis.		
Ingestion			
Inhalation	Dust can irritate the nose and throat		
DELAYED OR OTHER HEALTH EFFECTS			

Target 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 Physical Hazard Classification n

|--|

Toxic Highly To		Flammable Oxidizer	
Irritant Sensit	izer	Combustible	
Corrosive Carcino	genic	Explosive Organic Peroxide	
		Pyrophoric unstable	
		Organic peroxide water-reactive	
SECTION 4 : FIRST A			
-	Flush eyes with plenty of water for at least 15 minutes and see doctor		
	Remove contaminated clothes, wash skin with soap and water.		
	If swallowed dilute by giving 2 glasses of water to drink and call a doctor.		
	Never give any by mouth to an unconscious person.		
Inhalation Move	Move subject to fresh air and rest		
Notes to physician			

SECTION 5 : FIRE FIGHTING MEASURES				
NFPA Flammability				
Classification				
NFPA RATINGS	Health: 1	Flammability :1	Reactivity: 1	
OSHA classification				

MSDS: Carbendazim 50 WP	Rev: 0
Flash point	151°C (Open Cup) (°C)
Flammability	-
(Explosive limits)	
Auto ignition	-
Temperature (°C)	
Hazardous	Hydrogen Sulfide, Carbon Disulfide and Oxides of carbon, Nitrogen and
Combustion	Sulfur
products	
Extinguishing Media	Dry chemical powder, CO2, Water, Water Spray
Protection of Fire	
Fighters	
Special Properties	Use Water spray to cool container. Wear self contained breathing
	apparatus.
Unusual Hazards	Sulfur combines with all metal except gold and platinum.
SECTION 6 : ACC	DIDENTAL 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	Scoop or shovel solid material into a suitable container. Keep dust to minimum. Flush cleaned area with water to chemical sewers. Keep spills and cleaning runoffs of municipal sewers and open bodies of water.

SECTION 7 : HANDLING AND STORAGE			
Handling			
Storage	Store in a dry shaded, well ventilated area. Do not allow it to become wet or over heated in storage because degradation of the material may occur and fire may be result. Provide plenty of ventilation to dissipate heat.		

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	 Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact. Contact lenses should not be worn when working with this chemical Hand protection: Avoid skin contact .Use gloves. Wash hands with plenty of mild soap and water before eating, drinking, use of toilet facilities or leaving work. Body protection: Avoid skin contact. Wear long-sleeved fire-retardant garments. Additional chemical-resistant protective gear may be required. This may include an apron, boots and additional facial protection. Respiratory Protection: Wear suitable respirators where exposure limits are exceed. An air-supplied respiratory protection must confirm to OSHO rules as specified in 29 CFR1910.134. Skin Protection : Wear insulated neoprene gloves for handling the material 		

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	
CARBENDAZIM	NA	
50 WP		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
Physical state	Solid	Appearance	White to slightly tan compound	
Odor	No applicable odor	PH of Slurry	6.8	
Specific gravity	0.4 to 0.5 G/CC	Solubility in	Dispersible	
(Water = 1)		water @		
Vapor pressure	NA	Vapor	NA	
@ 20°C (mm Hg)		density		
Viscosity		Boiling point	NA	
-		(°C)		
Melting point	NA			
(°C)				

SECTION 10: STABILITY AND REACTIVITY			
Chemical stability	Stable		
Conditions to Avoid	Keep dry and avoid excessive heat and ignition sources.		
Hazardous Decomposition Products	Hydrogen Sulfide, Carbon Disulfide, Oxides of carbon, Nitrogen and Sulphur		
Hazardous Polymerization	Data not available		

SECTION 11: TOXICOLOGICAL INFORMATION			
Acute Oral toxicity	LD 50 (oral – rat): 100000 mg/kg		
Acute Dermal toxicity			
Acute Inhalation toxicity			
Eye irritation: This material is irritating to the eyes			
Skin irritation: This material is irritating to the skin			

MSDS: Carbendazim 50 WP

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

Rev:0

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method : Incinerate in approved equipment in accordance with local 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	DOT Technical Name: Carbendazim Technical		
DOT Hazard class	Class: 9 UN Number: 3077		
DOT identification number	PESTICIDE, SOLID, TOXIC, N.O.S		
DOT packing Group	Packing Group: 3		
DOT additional information	Classified as Non Dangerous goods for transport by road and rail.		

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 exp	posure limit		

MSDS: Carbendazim 50 WP	Rev : 0
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			
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		

DISCLAIMER

The Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties, of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is however ensures that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold as the case may be by us. <u>Indofil Industries Limited makes</u> no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

Last updated :12/08/2016.