

MATERIAL SAFETY DATA SHEET			
AFRIZEB 75 WDG		Mancozeb 75 % WDG	CAS Number [8018 -01 -7]
1.	SUBSTANCE/ PREPARATION AND COMPANY IDENTIFICATION		
	Chemical Nature Company	Manufacturer of Agrochemicals/Specialty Chemicals. M/s. Sabero Organics Gujarat limited, Bezzola Commercial Complex, A Wing, 3 rd Floor, Suman Nagar, Sion–Trombay Road, Chembur, Mumbai–400 071. INDIA TEL: 0091-22-61132400 FAX: 0091-22-61132405	
2.	COMPOSITION /INFORMATION ON INGREDIENTS		
	List of Ingredients	Concentration (% w/w)	
	Mancozeb a. i. Min.	75	
	Related reaction products and Adjuvants	25	
3.	HAZARD IDENTIFICATION		
	Primary Routes of Exposure Inhalation Eye Contact Skin Contact Inhalation Inhalation can cause the following: Irritation of nose, throat and lungs. Eye Contact Direct contact with material can cause the following: moderate irritation. Skin Contact Prolonged or repeated skin contact can cause the following: Slight skin irritation-skin sensitization in susceptible individuals. Delayed Effects Delayed effects are not expected with use of Mancozeb 75 WDG as recommended. Toxic effects, such as liver or thyroid effects, birth defects and Neurotoxicity, which are observed in animal conducted at doses above anticipated exposure level under normal conditions of manufacture and use, May occur during overexposure situation.		
4.	FIRST AID MEASURES		
	Skin Contact	Remove contaminated clothing immediately. Wash contaminated skin areas with soap or mild detergent and large amount of water. Get medical attention if symptoms occur or recur.	



	Eye contact	Irrigate the eyes with large amount of water or normal saline solution and obtain medical aid.
	Ingestion	If person is alert and respiration is not depressed, give syrup of IPECAC followed by 1 – 2 glasses of water to induce vomiting. Following emesis administer 30 – 50 grams of Activated Charcoal followed by Sodium or Magnesium Sulfate @ 250 mg/kg to remove toxicant from the gut by catharsis.
5.	FIRE –FIGHTING MEASURES	
	Suitable Extinguishing Media.	Dry chemical, CO ₂ , Halon, Water spray or standard Foam.
	Unsuitable Extinguishing Media.	Not applicable.
	Fire fighting	Move container from the fire area if possible. Fight fire from the maximum distance. Avoid breathing hazardous vapors, keep upwind. Stay away from storage tank ends. Use agents suitable for type of surroundings. Extinguish only if flow can be stopped. Do not scatter spilled material with high pressure water streams. Dike fire control water for later disposal.
6.	ACCIDENTAL RELEASE	
	Personal Precaution	Avoid contact with skin, eyes and clothing.
	Environmental Precautions	Prevent contamination of soil, drains and surface water.
	Method of cleaning	Absorb the material in the sand or suitable absorbent and place in suitable containers. Incinerate the same.
7.	HANDLING AND STORAGE	
	Handling	Use appropriate (impervious) clothing, gloves and closed footwear to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes.

	Storage	Keep the product in original container tightly
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		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 incompatible substances and/or source of ignition.		
8.	EXPOSURE CONTROL / PERSONAL PROTECTION.			
	Technical protective measures	None.		
	Exposure Standards	No occupational exposure standard have been established by the NOHSC (Australia) for the product. Sabero recommend the following Acceptable Exposure Limit (AEL) Mancozeb 2 mg/m ³ (8 hour) total dust. 1.5 mg/m ³ (12 hour) total dust.		
	Respiratory protection	Wear suitable mask.		
	Hand protection	Wear impervious gloves.		
	Eye protection	Wear flash proof and dust resistant goggles.		
	Skin protection	Wear impervious clothing and closed footwear.		
9.	PHYSICAL AND CHEMICAL PROPERTIES.			
	Appearance	Yellow to olive brown colour free flowing micro granules	Melting Point	Decomposes at 199 – 206 °C
	Odour	Musty odour.	Boiling point	N.A.
	Autoflammability	-----	Oxidizing property	Non Oxidising
	Explosive properties	Non – Explosive	Density	0.623 gm/ml
	Solubility in water	Dispersible	Flash Point	Non flammable
	Vapour pressure	Negligible <1.33 x 10 ⁻² mPa	pH of 1% solution	6.5 – 7.5
	Suspensibility	77.68	Viscosity	N.A.
10.	STABILITY AND REACTIVITY			
	Thermal Stability	Stable under normal temperature and pressure		
	Conditions to avoid	Never heat the compound above or near to melting point temperature.		
	Material to avoid	Avoid acidic material.		
	Hazardous Decomposition Products	Thermal decomposition products may include toxic Oxides of Carbon, Nitrogen and Sulfur.		



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11.	TOXICOLOGICAL INFORMATION	
	Acute LD ₅₀ Oral Rat	> 2000 mg/kg body weight.
	Acute LD ₅₀ Dermal Rat	> 2000 mg/kg body weight.
	Acute LC ₅₀ Inhalation Rat	> 1.22 mg/l of air
	Eye Irritation Test Rabbits.	Non-irritant.
	Skin Irritation Test Rabbits.	Non-irritant.
	Skin Sensitization Guinea Pig	Non-sensitizing.
	Carcinogenicity	Non – Carcinogenic
	Mutagenic	Non – Mutagenic
	Reproductive Toxicity	The NOAEL was 100 ppm equal to 3 mg/kg bw/day.
12.	ECOLOGICAL INFORMATION	
	LC ₅₀ (96 h) for Common Carp	3.4 mg /l
	EC ₅₀ for Daphnia	1.59 mg/l
	Acute Dietary LC ₅₀ for Chicken	> 5000 mg/kg
	Bee Toxicity LD ₅₀	133.3 µg a.i./bee
	% Biodegradability	Degradation in soil is mainly by micro-organisms
	Sewage Toxicity	Toxic
13.	DISPOSAL CONSIDERATION	
	Incineration or landfill in accordance with local regulations. Contaminated packing material should be treated in a same manner as the product.	
14.	TRANSPORT INFORMATION	
	UN Number	3077
	Marine Pollutant	Yes
	Class	9
	IATA Packing Instruction	III
	Flash Point	N.A.
	First Aid Code	N.A.
15.	REGULATORY INFORMATION	
	Classification	Harmful, Toxic

	Risk Phrases	R22 Harmful if swallowed. R25 Relatively less toxic to aquatic organism. R53 May cause long term adverse effects in the aquatic environment.
	Safety Phrases	S2 Keep out of reach of children.



		S13 Keep away from food, drink and animal feedings. S36 Wear protective clothing. S56 Dispose off this material and its container to hazardous or special waste collection point. S62 if swallowed induce vomiting and seek Medical advice immediately and show The container label.
16.	OTHER INFORMATION	
	Incompatible with the acidic material. Antidote : No specific antidote available. Treat symptomatically and supportively.	
<i>This product should be stored, handled and used in accordance with good industrial practices and in conformity with legal regulation.</i>		
<i>This information is based on present knowledge for your guidance on safety requirements. It is not intended as a specification.</i>		

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Disclaimer

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