

P. O. Box: 29024 - 00100 GPO Nairobi - Kenya, Office Line: +254 20 240 3391 / 254 740 529 579 Email: info@eabusinesscompany.com, eabclimited@gmail.com / Skype: ksantosh2001

#### MATERIAL SAFETY DATA SHEET EVADE 80% Mancozeb 80% WP

Maiicozeb 60% WF					
Mancozeb 80% WP		CAS Number for Mancozeb	[8018 -01 -7]		
1.	Substance/ preparation and company identification				
	Chemical Company Registered Office:M/s.	Andhra Prad	Limited , Secunderabad - 500 003		
2	COMPOSITION /INFORMATION ON INGREDIENTS				
Sr. No.	KIND OF INGREDIENTS	CAS No	CONCENTRATION (%)		
1.	Mancozeb technical	[8018 -01 -7]	80% min		
2.	Sodium Lignosulfonate	[8061-51-6]	20% max		
	Total		100 %		
3.	HAZARD DENTIFICATION				
	Emergency Overview:-				
	CAUTION! KEEP OUT OF REACH OF CHILDREN  HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN Avoid contact with eyes, skin and clothing. Avoid breathing spray mist or dust. May cause Allergic skin reaction.  Potential Health Effects Inhalation and skin contact are expected to the primary routs of occupational exposure to this material. Based on single exposure animal, it is considered to be practically non-toxic if swallowed no more than slightly toxic if absorbed through skin, practically non-toxic if inhaled and slightly irritating to eyes and skin. Inhalation mat to be moderately irritating to the respiratory tract. Repeated exposure may cause an allergic skin reaction. Repeated and long term exposure may cause adverse effect on thyroid.				

4.	FIRST AID MEASURES



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	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.	
	Eye contact	Hold eyes open and rinse slowly and gently with water for 10-15 min. If persist continue rising eye. Call doctor for treatment advice.	
	<u>Swallowed</u>	Call doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.	
5.	5. FIRE - FIGHTING MEASURES		
	Suitable Extinguishing Med	Dry chemical, CO <sub>2</sub> , foam, if material becomes wet, it will deteriorate and become a fire hazard.	
	Unsuitable Extinguishing N	Nedia. Not applicable.	
	Exposure Hazards	Thermal decomposition products may include toxic oxides of carbon, nitrogen and sulfur.	
	Fire fighting	Move container from the fire area if possible. Fight fire from the maximum distance, avoid breathing hazardous vapours, keep upwind. Stay away from storage tank ends. Use agents suitable for type of surrounding 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 MEASURES		
	In case of Spill or leak		
	Contain spill. Sweep or scoop up and remove suitable container. Flush with water. Prespilled Product from entering sewer or natural water.		
7.	HANDLING AND STORAGE		
	<u>Handling</u>	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.	
	<u>Storage</u>	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.	



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8.	EXPOSURE CONTROL / PERSONAL PROTECTION					
	Technical protective measures		None.			
	Exposure control	limits	Avoid breathing toxic vapor	rs.		
	Respiratory prote	ection	Wear suitable mask.			
	Hand protection		Wear impervious gloves.	Wear impervious gloves.		
	Eye protection  Skin protection		Wear flash proof and dust resistant goggles.			
			Wear impervious clothing and closed footwear.			
9.	PHYSICAL AND CHEMICAL PROPERTIES.					
	Melting Point	Decomposes before melting.	<u>Appearance</u>	Yellow to yellowish green coloured homogeneous powder.		
	Boiling point	N.A.	Odour	Musty odour.		
	Oxidizing property	Non Oxidizing	Vapour pressure	Negligible		
	Bulk Density	Tap Density = 0.4-0.5 g/ml	Explosive properties	Non - Explosive		
	Flash Point	Non flammable	Solubility in water (20 °C)	Partial Soluble		
	pH of 1% solution	5 - 9	Auto flammability	Non flammable		
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, strong oxidizers.			
	Hazardous polymerization		Does not occur.			
11.	TOXICOLOGICAL INFORMATION					
	Acute LD <sub>50</sub> Oral Rat		> 2000 mg/kg body weight.			
	Acute LD <sub>50</sub> Dermal Rat		> 2000 mg/kg body weight.			
	Acute LC <sub>50</sub> (4 h) Inhalation Rat		> 4.97 mg/l of air			
	Eye Irritation Test Rabbits.		Nonirritant			
	Skin Irritation Test Rabbits.		Nonirritant			
	Skin Sensitization Guinea Pig		May be a sentizer to guinea pig			
	Mutagenic		Non - Mutagenic			



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12.	ECOLOGICAL INFORMATION			
	Birds:	Acute Oral LD <sub>50</sub> > 2000 mg/Kg BW for Japanese quail Acute Oral LD <sub>50</sub> > 2000 mg/Kg BW for Bob White quail		
	Fish:	LC <sub>50</sub> (96 hrs.) for rainbow trout 0.392 mg/L NOEC for Rainbow Trout 0.0340 mg/L		
	Daphnia:	EC <sub>50</sub> (48 hrs.) 0.528 mg/l.		
	Algae:	EC <sub>50</sub> (72 hrs. Area under the growth curve) for <i>Pseudokirchneriella subcapitata</i> 0.0801 mg/l.		
	Bees:	LD <sub>50</sub> 48 Hrs. (oral) >100μg/bee; (contact) >100μg/bee		
	Earthworms:	LC <sub>50</sub> (14 d) for <i>Eisenia foetida</i> 243.88 mg/kg soil.		
13.	DISPOSAL CONSIDERATION			
Recover, reclaim or recycle when practical. Dispose of accordance with state regulations. Contaminated liquid should be concentrated and incinerated as pand local regulations.				
14.	TRANSPORT INFORMATION			
	UN Number / IMDG Code	3077		
	IMDG CODE PAGE	9029		
	Class	9		
	Packing group	III		
	Flash Point	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	<ul> <li>S2 Keep out of reach of children.</li> <li>Keep away from food, drink and animal feedings.</li> <li>S36 Wear protective clothing.</li> <li>S56 Dispose of this material and its container to hazardous or special waste collection point.</li> <li>S62 if swallowed induce vomiting and seek medical advice immediately and show the container label.</li> </ul>		



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16. OTHER INFORMATION

Incompatible with the acidic material. Antidote: No specific antidote available. Treat symptomatically and supportively.

#### Disclaimer

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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