

TECHNICAL DATA SHEET OF

Mancozeb 75% DF

Chemistry identity	
Common name	Mancozeb 75% DF
IUPAC name	manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt
CAS No	8018-01-7
Formula structure	$\left[\begin{array}{c} \text{H} \\ \\ \text{S} - \text{C} - \text{N} - \text{CH}_2\text{CH}_2 - \text{N} - \text{C} - \text{S} \\ \quad \\ \text{S} \quad \text{S} \end{array} \text{Mn}^{++} \right]_x (\text{Zn})_y$ <p style="text-align: center;">x:y = 1:0.091</p>
Physical and chemical properties	
Appearance	Powder
Content	Mancozeb: 75%
pH	NA
Solubility in water	Disperse in water
Mammalian toxicity	
Acute oral	LD ₅₀ >5000 mg/kg
Acute dermal	LD ₅₀ for rats >5000 mg/kg
Acute inhalation	LC ₅₀ (4 h) for rats >5.0 mg/L
Environment fate	<p>Mancozeb breaks down rapidly in soil, sediment and water; terminal metabolites are natural products and with mineralisation to carbon dioxide. It does not bioaccumulate.</p> <p>Animals Poorly absorbed and rapidly excreted in animals. The spectrum of metabolites produced was similar in laboratory and farm animals, pointing to two common metabolic pathways, which both lead ultimately to the formation of glycine and to incorporation of the metabolites into natural products.</p> <p>Plants Extensively metabolised in plants, forming ethylenethiourea, ethylenethiuram monosulfide, ethylenethiuram disulfide and sulfur as transitory intermediates. Terminal metabolites are natural products, especially those derived from glycine.</p> <p>Soil/Environment Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism. Soil DT50 <1 d (ave., 20 ° C). Koc 998 ml/g (ave., 4 soils).</p>
Handling and storage	<p>Handling: Avoid contact with skin, eyes and clothing; material may be an irritant.</p> <p>Storage: Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces.</p> <p>Storage: Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.</p>
Package	25kg drum or customized package