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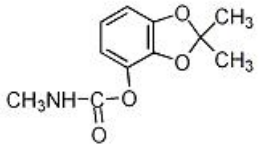
TECHNICAL DATA SHEET OF
Bendiocarb 80% WP

Chemistry identity	
Common name	Bendiocarb 80% WP
IUPAC name	2,3-isopropylidenedioxyphenyl methylcarbamate; 2,2-dimethyl-1,3-benzodioxol-4-yl methylcarbamate
CAS No	22781－23－3
Formula structure	
Physical and chemical properties	
Appearance	Beige powder
Content	80% min.
pH	NA
Density	NA
Solubility in water	Disperse in water
Mammalian toxicity	
Acute oral	LD_{50} for rats 25-156 mg/kg (For Bendiocarb TC)
Acute dermal	Acute percutaneous LD_{50} for rats 566–800 mg/kg (For Bendiocarb TC)
Acute inhalation	LC_{50} (4 h) for rats 0.55 mg/l air (For Bendiocarb TC)
Environment fate	**Animals** In rats and a range of other mammals, rapidly absorbed following oral administration or inhalation, but not following skin contact. Rapidly detoxified and eliminated almost completely within 24 hours as the sulfate and glucuronide conjugate of the principal metabolite 2,2-dimethyl-1,3-benzodioxol-4-ol . **Soil/Environment** Bendiocarb is rapidly degraded in soil, via hydrolysis of the methyl carbamate and heterocyclic rings, followed by oxidation to polar and soil-bound residues, together with considerable mineralisation of the phenyl ring to CO2. DT50 values for the rate of decline of bendiocarb in agricultural soils and standard Speyer 2.2 range from 0.5 to 10 d, depending upon soil type, moisture and temperature. In adsorption/desorption studies, bendiocarb was hydrolysed to 2,2-dimethyl-1,3-benzodioxol-4-ol (NC 7312). Bendiocarb and NC 7312 are weakly adsorbed (Koc 28 － 40); however, because it is rapidly degraded, bendiocarb should not leach.
Handling and storage	**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. **Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Package	25kg drums or customized package