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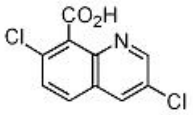
TECHNICAL DATA SHEET OF

Quinclorac 50% WP

Chemistry identity	
Common name	Quinclorac 50% WP
IUPAC name	3,7-dichloroquinoline-8-carboxylic acid
CAS No	84087–01–4
Formula structure	
Physical and chemical properties	
Appearance	light yellow powder
Content	50% min
pH	3.0-6.0
Solubility in water	Wettable in water
Mammalian toxicity	
Acute oral	LD_{50} for rats >2000 mg/kg
Acute dermal	LD_{50} for rats > 2000 mg/kg
Acute inhalation	LC_{50} (4 h) for rats >5.0 mg/m^3
Environment fate	**Animals** More than 90% of radiolabelled quinclorac, administered orally to rats, is excreted in the urine within 5 days. **Plants** In plants, systemically translocated to the roots and to the leaves. **Soil/Environment** Only slightly adsorbed by the soil. Depending on soil type and organic matter content, the chemical is relatively mobile, this mobility increasing with higher percolation rates in fields. Quinclorac is degraded by micro-organisms, 3-chloro-8-quinolinecarboxylic acid being a major metabolite. Water regimes causing changes in moisture content in rice soils enhance the microbial degradation. Photolytic decomposition in active paddy water occurs in the presence of sunlight and dissolved humic acids.
Handling and storage	**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Avoid breathing vapor. **Storage:** Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Refrigeration has been recommended.
Package	25kg drum or customized package