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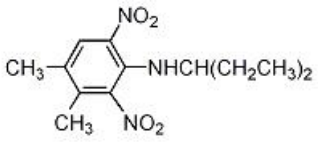
TECHNICAL DATA SHEET OF

PENDIMETHALIN 330g/L EC

Chemistry identity	
Common name	PENDIMETHALIN 330g/L EC
IUPAC name	N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine
CAS No	40487 - 42 - 1
structure Formula	
Physical and chemical properties	
Appearance	Brown liquid
Content	330g/L min
pH	5.0-8.0
Density	NA
Solubility in water	Emulsifiable in water
Mammalian toxicity	
Acute oral	LD_{50} for rats>5000 mg/kg
Acute dermal	LD_{50} for rats >2000 mg/kg
Acute inhalation	LC_{50} (4 h) for rats >2.0 mg/L
Environment fate	**Animals** In rats, the major metabolic routes for pendimethalin involve hydroxylation of the 4-methyl and N-1-ethyl groups, oxidation of these alkyl groups to carboxylic acids, nitro-reduction, cyclisation and conjugation. **Plants** In plants, the 4-methyl group on the benzene ring is oxidised to the carboxylic acid via the alcohol. The amino nitrogen is also oxidised. At harvest time, residues in crops are below the validated sensitivity of the analytical method (0.05 ppm). **Soil/Environment** In soil, the 4-methyl group on the benzene ring is oxidised to the carboxylic acid via the alcohol; the amino nitrogen is also oxidised. DT50 in soil is 3 - 4 mo (A. Walker & W. Bond, Pestic. Sci., 1977, 8, 359). Kd ranges from 2.23 (0.01% o.m., pH 6.6) to 1638 (16.9% o.m., pH 6.8) (H. J. Pedersen et al., Pestic. Sci., 1995, 44, 131).
Handling and storage	Handling: Keep out of reach of children. Avoid contact with skin and eyes, and do not inhale dust or spray mist. Use only in a well-ventilated area. Storage: Store product in the closed, original container in a safe, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.
Package	200L drum or customized package