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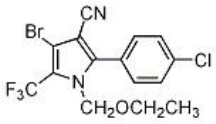
TECHNICAL DATA SHEET OF

Chlorfenapyr 98% TC

Chemistry identity	
Common name	Chlorfenapyr 98% TC
IUPAC name	4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile
CAS No	122453–73–0
Formula structure	
Physical and chemical properties	
Appearance	Off-white powder
Content	98% min.
pH	6.0~9.0
Solubility in water	In water 0.14 mg/l (pH 7, 25 ° C)
Mammalian toxicity	
Acute oral	LD_{50} for Acute oral LD50 for male rats 441, female rats 1152 Tech./kg
Acute dermal	LD_{50} for rats >2000 mg/kg
Acute inhalation	LC_{50} (4 h) for rats > 1.9 mg Tech./L
Environment fate	**Animals** In rats, >60% of orally administered chlorfenapyr was excreted, primarily through faeces, within 24 hours. The absorbed residues were metabolised via N-dealkylation, dehalogenation, hydroxylation and conjugation. Parent and less polar metabolites were found in egg, milk and tissues such as fat and liver. **Plants** In cotton, citrus, tomato, lettuce and potato, chlorfenapyr is dealkylated to the insecticidally active component (AC 303268) or debrominated to less toxic metabolites. Chlorfenapyr does not translocate out of treated plant parts.**Soil/Environment** In soil, chlorfenapyr is the major residue. Debromination to a less toxic metabolite is the primary route of degradation. Koc >10 000 ml/g, indicating chlorfenapyr is likely to be strongly bound in soils. In water, DT50 (direct photodegradation) 4.8–7.5 d; stable to hydrolysis at pH 4, 7 and 9.
Handling and storage	**Handling:** Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions. **Storage:** Do not contaminate water, food or feed by storage or disposal. Keep in tightly closed container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Keep out of reach of children and uninformed persons. Protect against physical damage.
Package	25kg drum or customized package