

TECHNICAL DATA SHEET OF

Thidiazuron 95% TC

Chemistry identity	
Common name	Thidiazuron 95% TC
IUPAC name	1-phenyl-3-(1,2,3-thiadiazol-5-yl)urea
CAS No	51707-55-2
Formula structure	
Physical and chemical properties	
Appearance	White or light yellow powder
Content	95% min.
pH	5.0-8.0
Density	NA
Solubility in water	In water approx 31 mg/l (pH 7, 25 ° C).
Mammalian toxicity	
Acute oral	LD ₅₀ (rats) >4000mg/kg
Acute dermal	LD ₅₀ for rats >2000 mg/kg.
Acute inhalation	LC ₅₀ (4 h) for rats >2300 mg/m ³
Environment fate	<p>Animals In rats and goats, metabolism involves hydroxylation of the phenyl group, followed by formation of water-soluble conjugates. Following oral administration, the compound is excreted in the urine and faeces within 96 hours.</p> <p>Plants Only small amounts of residue (normally <0.1 mg/kg) are likely in cottonseed.</p> <p>Soil/Environment Strongly adsorbed by soil. DT50 in soil c. 26 - 144 d (aerobic), 28 d (anaerobic). Essential soil microbial processes are only temporarily influenced, if at all.</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. 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	1kg bag or customized package