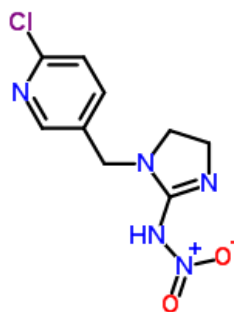


## IMIDACLOPRID TECHNICAL

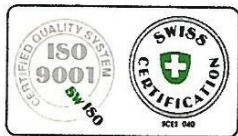
### Description of Technical

Imidacloprid is a systemic, chloro-nicotinyl insecticide with soil, seed and foliar uses for the control of sucking insects including rice hoppers, aphids, thrips, whiteflies, termites, turf insects, soil insects and some beetles. The chemical works by interfering with the transmission of stimuli in the insect nervous system.

<b>Common Name</b>	:	Imidacloprid
<b>IUPAC Name</b>	:	(E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine
<b>C.A. Name</b>	:	(2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine
<b>Chemical Family</b>	:	Neonicotinoid
<b>Structural Formula</b>	:	



<b>Empirical formula</b>	:	C <sub>9</sub> H <sub>10</sub> ClN <sub>5</sub> O <sub>2</sub>
<b>Molecular Weight (g mol<sup>-1</sup>)</b>	:	255.66
<b>C.A.S. No.</b>	:	138261-41-3
<b>Physical State</b>	:	Colourless crystals
<b>Melting Point</b>	:	144°C
<b>Odour</b>	:	Weak characteristic odor
<b>Density</b>	:	1.54 g/l at 20°C

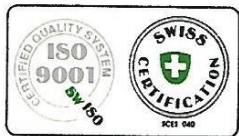


<b>Vapour Pressure</b>	:	4.0 X 10 <sup>-07</sup> mPa at 25°C
<b>Flash Point</b>	:	Not expected to self-ignite; Not highly flammable
<b>Explosion Hazard</b>	:	Not explosive or oxidising
<b>Solubility in water</b>	:	610 mg/l at 20 °C
<b>Stability</b>	:	Stable to hydrolysis at pH 5-11

## IMIDACLOPRID TECHNICAL

### Sales Specification

<b>Imidacloprid content by mass</b>	:	94% min
<b>Moisture content</b>	:	0.2% max
<b>Packing</b>	:	25 kg HDPE bags, further packed in MS drums
<b>Transportation information</b>	:	UN No.2588 Class 6.1 IMDG code UN 2588 PESTICIDE, SOLID, TOXIC, N.O.S 6.1 PG III Not a marine pollutant Packing Group III



## TOXICOLOGICAL PROFILE

LD50 Acute oral	: Rat	424 mg/kg
LD50 acute Percutaneous	: Rabbit	>5000 mg/kg
LC50 inhalation(4hr)	: Rat	>0.069 mg/l air
Skin irritation	: Rabbit	Non-irritant
Eye irritation	: Rabbit	Non-irritant
Skin sensitization	: Rabbit	No skin sensitization