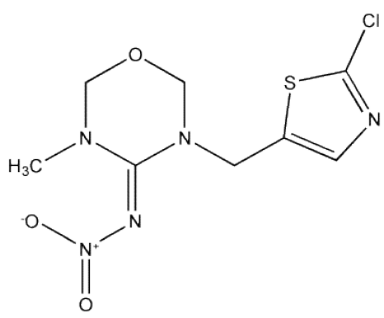


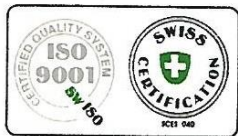
## THIAMETHOXAM TECHNICAL

### Description of Technical

Thiamethoxam is a nicotinoid compound with broad-spectrum insecticidal properties. It is registered for use on numerous crops in many countries against sucking and chewing insects in vegetables, ornamentals, field crops, deciduous fruits, citrus, cotton and rice. It possesses contact and stomach activity. Its systemic properties has resulted in its use against foliar feeding insects via seed treatment, soil application, through irrigation systems, or applied to the trunks of trees. It is also registered for direct foliar application.

<b>Common Name</b>	:	Thiamethoxam
<b>IUPAC Name</b>	:	(EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine
<b>C.A. Name</b>	:	3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-4H-1,3,5-oxadiazin-4-imine
<b>Chemical Family</b>	:	Neonicotinoid
<b>Structural Formula</b>	:	

<b>Empirical formula</b>	:	C <sub>8</sub> H <sub>10</sub> ClN <sub>5</sub> O <sub>3</sub> S
<b>Molecular Weight (g mol<sup>-1</sup>)</b>	:	291.71
<b>C.A.S. No.</b>	:	153719-23-4
<b>Physical State</b>	:	Crystalline powder

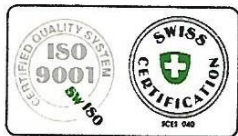


<b>Melting Point</b>	:	139.1 °C
<b>Odour</b>	:	Moldy odor
<b>Density</b>	:	1.57 g/l at 20 °C
<b>Vapour Pressure</b>	:	6.60 X 10 <sup>-06</sup> mPa at 25 °C
<b>Flash Point</b>	:	Not expected to self-ignite; Not highly flammable
<b>Explosion Hazard</b>	:	Not explosive
<b>Solubility in water</b>	:	4100 mg/l at 20 °C
<b>Stability</b>	:	Stable in water at pH 5

## THIAMETHOXAM TECHNICAL

### Sales Specification

<b>Thiamethoxam content by mass</b>	:	97% min
<b>Moisture content</b>	:	0.2% max
<b>Packing</b>	:	LDPE/HDPE sacks of capacity upto 200 kg which are further packed in MS drums
<b>Transportation information</b>	:	UN No.3077 Class 9 IMDG code UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. 9 PG III marine pollutant Packing Group III



## TOXICOLOGICAL PROFILE

<b>LD50 Acute oral</b>	:	Rat	1563 mg/kg
<b>LD50 acute Percutaneous</b>	:	Rabbit	>2000 mg/kg
<b>LC50 inhalation (4hr)</b>	:	Rat	>3.720 mg/l air
<b>Skin irritation</b>	:	Rabbit	Non-irritant
<b>Eye irritation</b>	:	Rabbit	Non-irritant
<b>Skin sensitization</b>	:	Rabbit	Not a skin sensitizer