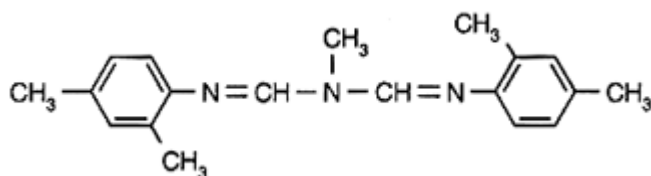


Technical Data Sheet

CHEMICAL IDENTIFICATION

Common Name:	Amitraz
Chemical Name:	N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]=imino]methyl]-N-methylmethanimidamide
Chemical Family:	Amidine
Empirical Formula:	C ₁₉ H ₂₃ N ₃
CAS Number:	33089-61-1
Purity:	99%
Structural Formula:	



PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight:	293.4
Appearance:	Crystal solid
Colour:	White/pale yellow
Odour:	Mild aromatic odour.
Melting Point:	86-88°C
Density:	1.128
Vapour pressure:	0.34 mPa @ 25°C
Volatility:	Non volatile
Solubility in water:	<0.1 mg/l (20°C)
Solubility in solvents:	Soluble in most organic solvents such as xylene, acetone, and toluene > 300gm/l.
Stability:	Hydrolysis DT ₅₀ (25°C) 2.1 h (pH 5)
Temperature:	No effect on stability
Flash Point:	28°C
Flammability:	Non flammable
Explosiveness:	Non explosive
Oxidising Properties:	No oxidising properties
Corrosive Properties:	Non corrosive
PH value:	9.0-11.0
Viscosity:	N/A

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USE

The product has insecticidal and acaricidal properties. It is effective in controlling red spider mite, pear suckers, scale insects, mealy bugs, white fly, aphids and tetranychid and eriophyid mites. The main veterinary uses are against ectoparasites such as ticks, mites and lice found on cattle, dogs, goats, pigs and sheep.

TOXICOLOGICAL INFORMATION

Route	Species	LD 50 in mg/kg of body weight.
Oral	LD ₅₀ for rats	500-600 mg/kg
	LD ₅₀ for mice	>1600 mg/kg
Dermal	LD ₅₀ for rats	>1600 mg/kg
	LD ₅₀ for rabbits	>200 mg/kg
Inhalation Toxicity	LC ₅₀ for rats (6 hrs)	65 mg/l air
Skin Irritation	rats	Slight irritant
Eye Irritation	rats	Slight irritant
	Sub-acute for rats	3-12 mg/kg/d in diet
	Sub-acute dermal rat	50-200 mg/kg/d
	Sub-acute inhalation LC 50 rats	0.01-0.2 mg/l
	Chronic toxicity studies showed NEL for rats	2.5-10.0 mg/kg/d
	Chronic toxicity studies showed NEL for dog	0.25-1.0 mg/kg/d.

ENVIRONMENTAL INFORMATION

LC ₅₀ Bobwhite Quail:	1 800 mg/l (8 days),
LC ₅₀ Japanese Quail:	1 800 mg/kg
LC ₅₀ Mallard Duck:	7 000mg/l
LC ₅₀ Bluegill:	1.3 mg/l (48 h)
LC50Trout:	0.74 mg/l (96 h)
Japanese Carp:	1.17 mg/l (48 h)
Blue Gill Sunfish:	0.4 mg/l (96 h)
LC ₅₀ Daphnia:	0.035mg/l (48 h)

TOXICITY TO BENEFICIAL INSECTS

Bees: Very low toxic to bees

PACKAGING DETAILS

50 kg PE Lined mild steel drum (UN approved)

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LABELLING DETAILS

In accordance with EEC norms relevant to the classification and labelling of dangerous goods, amitraz is labelled with the following symbols and phrases.

Symbol:	Xn
Risk Phase:	R 22
Safety Advice:	S 22

The statements made in this Data Sheet are, to the best of our knowledge, as accurate as possible, are given only for information and are without guarantee or responsibility on our part regarding the various laws or patents in connection with the use of the product. Further information is available on request.