

**PRODUCT INFO  
& DATASHEET**

# ***EFFITICK 125 EC*** ***(AMITRAZ 125 g/l E.C.)***

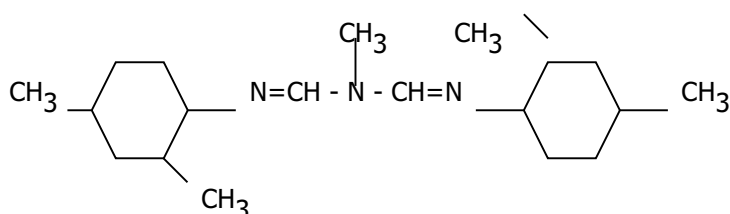
***Acaricide and Insecticide for Control of Animal Ectoparasites***

## **NOMENCLATURE**

The common name AMITRAZ is approved by BSI, ISO, ANSI, JMAF for: N-methylbis (2,4 xylyliminomethyl) amine (IUPAC name).

## **CHEMICAL AND PHYSICAL DATA OF ACTIVE INGREDIENT**

Formula :



C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>

Molecular weight: 293.4

CAS Number

33089-61-1

The pure active ingredient has the following properties:

Appearance	:	Colourless monoclinic needles (technical is a pale yellow crystalline solid)
Melting point	:	86 - 88°C
Vapour pressure	:	0.34 mPa at 20 EC
Density	:	1.128 at 20 EC
Octanol / water K <sub>OW</sub>	:	log P <sub>OW</sub> = 5.5 (at 25 EC, pH 5.8)
Solubility in Water	:	0.01 g/l (pH 7)
Solubility in organic solvents	:	Soluble in most organic solvents
Stability	:	Acetone, Toluene, Xylene: > 300 (g/l at 20 EC)
	:	Stable to U.V light. Relatively stable in alkaline media, but rapidly hydrolysed in acid - neutral media

## **TOXICOLOGY OF ACTIVE INGREDIENT**

Acute Oral LD50	:	rat	:	> 800 mg/kg
Acute Oral LD50	:	mouse	:	> 1600 mg/kg
Acute Dermal LD50	:	rat	:	> 200 mg/kg
Acute Dermal LD50	:	rabbit	:	> 1600 mg/kg
Acute Inhalation LC50 6-h	:	rat	:	> 65 mg/ltr

Very slight eye irritant (rabbits). Not a skin irritant or a skin sensitizer (rabbits).

NOEL: In 2 year feeding trials, no adverse effect observed in rats receiving 50 - 200 ppm diet, or dogs dosed with 0.25 mg/kg b.w. Human NOEL > 0.125 mg/kg daily. Acceptable Daily Intake (ADI) = 0.003 mg/kg b.w.

## **ECO-TOXICOLOGY OF ACTIVE INGREDIENT**

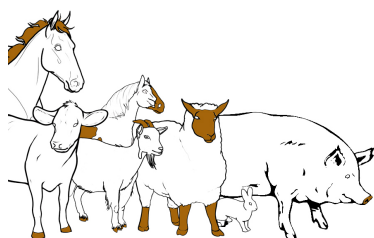
The toxicity of Amitraz for birds is low.

Acute Oral LD50	:	bobwhite quail	:	> 788 mg/kg
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Amitraz is moderately toxic to many fish and aquatic invertebrate species

Fish Toxicity LC50 (96-h):      rainbow trout      : 3.4 mg/l  
   bluegill sunfish      : 1.3 mg/l

Aquatic Toxicity LC50 (48-h):      Daphnia sp.      : 0.035 mg/l

Due to rapid hydrolysis, it is unlikely that this toxicity will be expressed in natural aquatic systems.

Amotraz has low toxicity to bees and natural insects

Bee Toxicity LD50:      21 mg/bee (oral)

### **SPECIFICATION**

EFFITICK 125 EC is manufactured to the following specification:

Appearance      :      Clear pale brown liquid  
Active      :      12.5% w/v (125 grams per litre)

### **APPLICATIONS**

AMITRAZ is an acaricide and insecticide effective against a wide range of phytophagous mites and insects. All stages of mites are susceptible. Used for control of lice, mange and ticks on farm animals.

### **DIRECTIONS FOR USE**

EFFITICK 125 EC should be diluted only with clean water. Always add to water and stir. Prepare a fresh solution when required. Do not store diluted insecticide. Suitable for application with all types of surface spraying equipment. Use at least 100 litres of water per litre of liquid concentrate.

### **RECOMMENDATIONS FOR USE**

#### **RECOMMENDATIONS CATTLE**

Mix EFFITICK 125 EC with water and apply with a knapsack sprayer or by dipping.

To control cattle ticks (eg *Boophilus microplus*) including all stages of single and multihost ticks, mix 200 ml EFFITICK 125 EC with 100 litres water. Dip animal or spray to wet thoroughly, especially areas where ticks attach. Spraying should require 3-5 litres per animal. When dipping submerge animal for 30 seconds minimum to ensure skin saturation. Submerge head completely at least once.

To control mange (mites) of cattle a second application 10-14 days later may be necessary. Dip animal or spray to wet thoroughly.

EFFITICK 125 EC is safe to use on lactating dairy animals without the necessity of discarding milk from treated animals. Care should be taken to prevent direct contamination of milk or equipment with spray mixture.

#### **RECOMMENDATIONS GOATS**

To control ticks, mange or nuisance flies on goats mix 400 ml EFFITICK 125 EC with 100 litres water and apply by knapsack sprayer to thoroughly wet the animal. General recommendations and precautions as cattle.

#### **RECOMMENDATIONS PIGS**

To control ticks, mange or nuisance flies on pigs mix 400 ml EFFITICK 125 EC with 100 litres and apply by knapsack sprayer to thoroughly wet the animal. General recommendations and precautions as cattle.

#### **RECOMMENDATIONS SHEEP**

To control mites and lice on sheep mix 400 ml EFFITICK 125 EC with 100 litres water and apply by dipping or by knapsack sprayer. For mites a single dip should be sufficient but for heavy infestations increase strength of mixture to 500 ml per 10 litres. For lice control spray application is sufficient.

#### **RECOMMENDATIONS ANIMAL HOUSES**

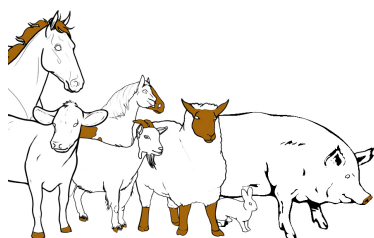
To control nuisance flies in buildings used for animal housing mix 500 ml EFFITICK 125 EC with 50 litres water and apply by knapsack sprayer at rate of 1 litre per 10 square meters. Spray all accessible surfaces including walls, ceilings, ventilators and pens.

Suitable for use in poultry houses, farrowing houses, dairy parlours and all farm buildings. Take care not to contaminate milk, dairy products or equipment, foodstuffs, seeds, animal feed or drinking water.

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### **HANDLING & SAFETY PRECAUTIONS**

- \* Wear rubber gloves, rubber boots and waterproof coat or coveralls when applying the product or handling freshly treated animals. Use of a face shield is recommended for additional protection.
- \* Wash hands and exposed skin and eyes immediately.
- \* Wash hands and exposed skin before eating, drinking or smoking, and after work.
- \* Wash all protective clothing thoroughly after use.
- \* Harmful to fish. Do not contaminate ponds, waterways or ditches with the product or used container.
- \* Empty containers completely and dispose of safely.
- \* Do not re-use empty containers for any other purposes.
- \* Keep out of reach of children.
- \* Assess bodyweight accurately to ensure correct dose is administered.
- \* Store in original containers under cool dry conditions; away from children and animals; preferably under lock and key.
- \* Contain any spillages with suitable absorbent material such as clay, earth or sand; then transfer to an appropriate container, label and store until safe disposal is possible.

### **FIRST AID PROCEDURES**

If on skin: remove contaminated clothing and wash the affected area with soap and water.

If in the eyes: irrigate with clean water or saline for at least 15 minutes.

If inhaled: make the patient rest and treat symptomatically with general supportive measures.

If ingested: gastric lavage is recommended provided that the patient is conscious.

Due to the effects of Amitraz on the CNS, artificial respiration may be required in extreme cases.

### **NOTES TO PHYSICIANS**

Amitraz is NOT an organophosphorus compound.

Follow with symptomatic treatment and general supportive measures. In view of the CNS depression effect of Amitraz, there may be a need for artificial respiration; and cardiac function should be monitored closely.

However, recovery is normally spontaneous.

Following excessive exposure to Amitraz, irritation of the mucosa and stomach cramps as well as bradycardia, hypotension and/or hyperglycaemia are common.

Note: There is no specific antidote to Amitraz. Treatment is symptomatic. Do NOT induce vomiting. Do NOT use atropine.

### **CONFIDENTIAL**

#### **REGISTRATION DATA**

<b>Trade name</b>	:	Amitraz 125 EC
<b>Brandname</b>	:	Effitick 125 EC
<b>Chemical name :</b>		N-methyl bis (2,4-xylylimi-nomethyl) amine
<b>Composition</b>	:	

	<u>% w/v</u>	<u>% w/w</u>
Amitraz A.I.	12.50	13.44
Adjuvants :		
Stabilizer	4.00	4.30
Emulsifier blend :	8.50	9.10
Solvent :	68.00	73.10

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