



## MATERIAL SAFETY DATA SHEET VETADEL 5 EC

### IDENTIFICATION OF THE SUPPLIER:

**AGRO CHEMICALS INDUSTRIES LTD**  
**JORDAN AMMAN**  
**P.O.Box 183020 Amman 11118 Jordan**  
**Tel. +962 6 5548224/5**  
**Fax. +962 6 5548220**  
**E-mail [info@aci.com.jo](mailto:info@aci.com.jo)**

### PRODUCT IDENTIFICATION:

**Common Name:** Deltamethrin 5% w/v  
**Trade Name:** Vetadel 5 EC  
**Recommended use:** veterinary  
**Formulation:** Emulsifiable concentrate  
**Chemical Name:** (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate.  
**Chemical Formula:** C<sub>22</sub>H<sub>19</sub>Br<sub>2</sub>NO<sub>3</sub>  
**Molecular Weight:** 505.2

### PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	<i>% w/v</i>	<i>CAS #</i>
Deltamethrin	5 %	[52918-63-5]
<i>Inert ingredient:</i>		
Emulsifier	7 %	--
Solvent	Up to 100%	--

### HAZARDOUS IDENTIFICATION:

Fire, flammable, heating sealed containers will cause pressure rise with risk of bursting & will give rise to irritant and toxic if fumes.  
Harmful if swallowed.





## FIRST-AID MEASURES:

**Eyes contact:** Flush immediately with clean water for 15 minutes at least.

**Skin contact:** Remove contaminated clothes and wash the skin with soap and water.

**Ingestion:** Don't induce vomiting, and call a physician immediately.

**Inhalation:** Move to a good ventilated place. Apply artificial respiration if necessary.

**Medical advice:** There is no specific antidote available. Treat symptomatically.

## FIRE-FIGHTING MEASURES: -

**Advice to Doctor:** No specific antidote. Treat according to symptoms.

**Suitable extinguishing media:** foam, dry agent, carbon dioxide.

**Unsuitable extinguishing media:** water jet.

**Fire and explosion hazards:** flammable.

**Special protective equipment**

## ACCIDENTAL RELEASE:

Evacuate and ventilate spillage area and eliminate all sources of ignition. Wear self contained breathing apparatus, wear suitable protective clothing, absorb Otto sand earth or other inert material and transfer to a closed container for safe disposal.

## HANDLING AND STORAGE:

### HANDLING

Advice on safe handling: No special technical protective measures required.

No special handling advice required.

Avoid contact with skin and eyes.

When using, do not eat, drink or smoke.



## STORAGE

Requirements for storage areas and containers:

No special storage conditions required.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

## PERSONAL PROTECTION/SAFTETY:

**Protective measures:** The use of technical measures should always have priority over the use of personal protective equipment.

When selecting personal protective equipment, seek appropriate professional advice.

Personal protective equipment should be certified to appropriate standards.

**Respiratory protection:** No personal respiratory protective equipment normally required.

A particulate filter respirator may be necessary until effective technical measures are installed.

**Hand protection:** Chemical resistant gloves are not usually required.

Select gloves based on the physical job requirements.

**Eye protection:** Eye protection is not usually required.

Follow any site specific eye protection policies.

**Skin and body protection:** No special protective equipment required.

Select skin and body protection based on the physical job requirements.

## PHYSICAL AND CHEMICAL PROPERTIES:

**Physical State:** Liquid.

**Colour:** Yellow

**Odor:** Aromatic

**PH: (1% w/w in water):** 4-7

**Flash Point (deg C):** 45 °C.

**Solubility in Water:** Emulsifiable concentrate

**Density (g/ml):** 0.907±0.05 at 20 °C

## STABILITY AND REACTIVITY:

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** Sources of ignition.

**Materials to Avoid:** None

## TOXICOLOGICAL INFORMATION:

### Acute toxicity: for active material

#### **Oral Acute oral LD<sub>50</sub>**

For rats 135->5000 mg/kg, depending upon carrier and conditions of the study;

For dogs >300 mg/kg.

**Skin and eye Acute percutaneous LD<sub>50</sub>** for rats and rabbits >2000 mg/kg. Non-irritating to skin; mild eye irritant (rabbits).

**Inhalation LC<sub>50</sub>** (4 h) for rats 2.2 mg/l air; (1 h) >4.6 mg/l air (micronised)

## ECOLOGICAL INFORMATION: -

### Acute toxicity (active ingredient)

**Birds** Acute oral LD<sub>50</sub> for mallard ducks >4640 mg/kg. Dietary LC<sub>50</sub> (8 d) for mallard ducks >8039, quail >5620 mg/kg diet. NOEL for reproduction for mallard ducks >70, bobwhite quail >55 mg/kg daily.

**Fish** Toxic to fish under laboratory conditions; LC<sub>50</sub> (96 h) for rainbow trout 0.91, bluegill sunfish 1.4 µg/l. Not toxic to fish under natural conditions.

**Bees** Toxic to bees, LD<sub>50</sub> (oral) 79 ng/bee; (contact) 51 ng/bee. Low LD<sub>50</sub> and LC<sub>50</sub> values under laboratory conditions do not represent a significant hazard to bees in normal field use.

**Worms** LC<sub>50</sub> (14 d) for earthworms >1290 mg/kg soil.





## DISPOSAL CONSIDERATIONS:

### **Product:**

Do not contaminate ponds, waterways or ditches with chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incineration.

If recycling is not practicable, dispose of in compliance with local regulations.

### **Contaminated packaging:**

Empty remaining contents.

Triple rinse containers.

Empty containers should be taken for local recycling or waste disposal.

Do not re-use empty containers.

## TRANSPORT INFORMATION:

### **International transport regulations**

**UN number:** 2903

**Proper shipping name:** pesticide, liquid, toxic, flammable, n.o.s

**ADR/RID Clas:** 6.1

**Packing group:** 609

