Safety Data Sheet

Corresponding to EC Directive 93/112/EC

Date Issued: 10 March 2016 Replaces Version of: 09 April 2015

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Trade Name: APISTAN®

1. Identification of the Product and of the Company

1.1 Product name:
Apistan®

1.2 Company name:
VITA (EUROPE) LIMITED
BASINGSTOKE, HAMPSHIRE, UNITED KINGDOM
Telephone: +44 (0)1256 473175
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1.3 Emergency Telephone Number: +44 (0)7767 815370
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2. Composition / Information on Ingredients

2.1 Chemical characterisation of the preparation:

Chemical Class: Cyanopyrethroid
Formulation Type: Plastic strip
Sector: ACARICIDE

Active Ingredient(s): 10% (w/w) TAU-FLUVALINATE (α-cyano-3-phenoxybenzyl-2-(2-chloro-α,α,α,-trifluoro-p-toluidino)-3-methylbutyrate)

2.2 Hazardous Component(s):

Contains: TAU-FLUVALINATE (α-cyano-3-phenoxybenzyl-2-(2-chloro-α,α,α,-trifluoro-p-toluidino)-3-methylbutyrate)
Empirical Formula: C_{26}H_{22}N_{2}O_{3}Cl F_{3}
Molecular Weight: 502.9
Content: 10% (w/w)
CAS-Reg. No. 102851-06-9
EC-label: Xn Harmful
N Dangerous for the environment.
R22 Harmful if swallowed.
R38 Irritating to skin.
R50 Very toxic to aquatic organisms.
R53 May cause long term adverse effects in the aquatic environment.
3. **Hazards Identification**

3.1 Health hazards:  
Slight irritant

3.2 Environmental hazards:  
Information on the active ingredient TAU-FLUVALINATE:  
Very toxic to fish  
Very toxic to Water Flea (*Daphnia magna*)

4. **First Aid Measures**

4.1 After contact with the eyes:  
Rinse eyes thoroughly with running water (approximately 15 minutes) and consult a physician if any symptoms persist.

4.2 After contact with the skin:  
Rinse the skin immediately with copious amounts of water. Immediately remove contaminated clothing. Consult a physician if any symptoms develop.

4.3 After inhalation:  
Not applicable.

4.4 After ingestion or accident:  
If feeling sick consult physician.

4.5 Symptoms:  
Salivation (possibility of)  
Diarrhoea (possibility of)

4.6 Note to physician:  
No specific antidote, treat symptomatically.

5. **Fire Fighting Measures**

5.1 Extinguishing media:  
Suitable agents: all.  
Not to be used: no restrictions.
5.2 Special advice in case of fire:
    Cool container with a water spray jet.

5.3 Hazardous products of combustion:
    hydrogen cyanide (hydrocyanic acid)
    hydrogen chloride
    hydrogen fluoride
    carbon dioxides
    carbon monoxide

6. Accidental Release Measures

   Do not contaminate waters or sewers. Collect product in containers for safe disposal. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, supplier or the local representative.

7. Handling and Storage

7.1 Handling:
    Measures to prevent fire and explosion:
    No special measures required.

7.2 Storage:
    Technical protective measures:
    Maximum storage temperature: 50°C
    Shelf life in unopened containers: 36 months (temperate climate)
    Store in unopened protective pouch. Do not open pouch until ready to use.
    Keep in a cool place.
    Keep dry.
    Material to avoid:
    Strong oxidising agents.

8. Exposure Controls and Personal Protection

8.1 Occupational toxicity risk:
    Low
8.2 Industrial hygiene:
Keep away from food, drink and animal feedstuffs.
When applying do not eat, drink or smoke.
Change working clothes daily.
Change contaminated clothes immediately.
Wash hands after handling / exposure.

8.3 Personal protective equipment:
Respiratory protection: not required
Eye protection: not required
Hand protection: gloves
Body protection: working clothes

9. Physical and Chemical Properties

9.1 Form: solid strip
9.2 Colour: light rose to amber
9.3 Odour: none (practically odourless)
9.4 Change in physical state:
Melting point: not applicable
Boiling point: not applicable
9.5 Flash point: not applicable
9.6 Ignition temperature: not applicable
9.7 Explosion limits: not applicable
9.8 Density: not applicable
9.9 Vapour pressure: not applicable
9.10 Viscosity: not applicable
9.11 pH value (in H₂O): not applicable
9.12 Solubility in water: insoluble at 20°C
9.13 Partition coefficient n-octanol/water:
Log p O/W: 4.26
Method: test result of the active ingredient.

10. Stability and Reactivity

10.1 Stability: stable

10.2 Reactivity: non-reactive

10.3 Incompatibility with other materials: strong oxidising agents

10.4 Hazardous Polymerisation: will not occur

11. Toxicological Information

11.1 Acute toxicity:
Oral LD₅₀: > 3000 mg/kg (rat)
Dermal LD₅₀: > 2000 mg/kg (rabbit)

11.2 Irritation:
Skin: mild irritant (rabbit)
Eyes: mild irritant (rabbit)

11.3 Sensitisation:
Skin: none (guinea pig)

12. Ecological Information

12.1 Fish toxicity:
Values for the active ingredient TAU-FLUVALINATE (100%):
LC₅₀ (96 hours): 0.0027 mg/l Rainbow Trout
(Salmo gairdneri, Oncorhynchus mykiss)

12.2 Daphnia toxicity:
Values for the active ingredient TAU-FLUVALINATE (100%):
LC₅₀ (48 hours): 0.0089 mg/l Water Flea (Daphnia magna)
Method: nominal
12.3 Algae toxicity:
Values for the active ingredient TAU-FLUVALINATE (100%):
EC\textsubscript{50} (72 hours): \(> 2\) mg/l

12.4 Bacterial toxicity (growth inhibition):
Values for the active ingredient TAU-FLUVALINATE (100%):
EC\textsubscript{50} (16 hours): \(400\) mg/l \textit{Pseudomonas putida}

12.5 Respiration inhibition:
Values for the active ingredient TAU-FLUVALINATE (100%):
EC\textsubscript{50} (3 hours): \(> 1000\) mg/l (activated sludge)

13. Disposal Considerations

13.1 Product Disposal

Local regulations should be adhered to.

Pay attention to protective clothing measures. Spilled product cannot be used further and must be disposed of. Do not discharge into drains or the environment. Collect material in specially marked, tightly closing containers. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative, and dispose of in an approved, controlled furnace with combustion gas scrubbing emission gas control.

13.2 Container Disposal

Local regulations should be adhered to.

DAMAGED CONTAINERS: place original containers in specially marked larger ones. Dispose of EMPTY CONTAINERS in an incinerator approved for chemicals. Check possibilities of recycling large empty containers.
14. **Transportation Information**

14.1 Miscibility with water: practically non-soluble / non-miscible

14.2 Transport classification:
- RID/GGVE: not classified as dangerous goods for transportation
- ADR/GGVS: not classified as dangerous goods for transportation
- IMDG/GGVSea: not classified as dangerous goods for transportation

15. **Regulatory Information**

Assessment by Vita (Europe) Limited according to EEC Directives:

S13 Keep away from food, drink, and animal feedstuffs.
S2 Keep out of the reach of children.

WHO classification: III slightly hazardous

16. **Other Information**

Product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.

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