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SAFETY DATASHEET

W.F.T. PheroLure®

1. IDENTIFICATION

Product Code: PWFT
Product Name: W.F.T. PheroLure®
Chemical contents: p-anisaldehyde (plant volatile compound)
Product description, recommended uses and restrictions:
This product consists of a semiochemical loaded in a dispenser. This product is intended for monitoring of Western Flower Thrips, *Frankliniella occidentalis*.
Supplier: Insect Science (Pty) Ltd.
9 Industria Street, New Industrial area, Tzaneen, 0850, South Africa
Telephone: 015 307 1391 / 015 065 0199
Fax: 087 809 5342
Emergency number: 015 307 1391 / 015 065 0199 (office hours)
In case of poisoning: Poison Information Centre 082 446 8946
Tygerberg Hospital 021 931 6129
Poison Emergency Enquiries 021 689 5227

2. HAZARD IDENTIFICATION

Classification of substance or mixture according to GHS; Regulation (EC) No 1272/2008:

Hazard Class	Hazard Category	Hazard Statement
Not classified according to GHS.		

Label elements

Pictograms:

None

Signal word: None

Hazard statement(s):

None

Precautionary statements:

None

Supplemental hazard statement(s):

None

Other hazards: Not known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture: Substance



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Substance name: p-anisaldehyde

Formula: C₈H₈O₂

Synonyms: 4-methoxybenzaldehyde, anisic aldehyde, anisaldehyde

Hazardous ingredients according to GHS:

None

4. FIRST-AID MEASURES

When loaded in the dispenser, the impregnated semiochemical represents less of a hazard in comparison to the neat semiochemical material.

General advice:

Inhalation: Remove victim from source of contamination to fresh air.

Skin: Gently wipe off chemical and wash with non-abrasive soap and water. Get medical assistance if irritation persists.

Eyes: Remove contact lenses if present and possible. Flush eyes with cold water (for 15 to 20 minutes). Get medical assistance if irritation persists.

Ingestion: If swallowed, rinse mouth thoroughly with water. Seek medical advice immediately.

Most important symptoms and effects, both acute and delayed: Not known.

Indication of any immediate medical attention and special treatment needed: Give supportive treatment. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Water spray, alcohol resistant foam, dry chemical or carbon monoxide.

Unsuitable: Water with a full water jet.

Specific hazards: Carbon dioxides and carbon monoxides.

Protective equipment for fire fighters:

Wear self-contained breathing apparatus and protective clothing if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use gloves when handling the device. Avoid excessive breathing of vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions

The neat product is harmful to the aquatic environment with long lasting effects. Prevent leakage or spillage if safe to do so. Do not let product enter drains, surface or ground water. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up



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Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Dispose of according to local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working.

Conditions for safe storage, including any incompatibilities

Store the product in closed original containers in a freezer and use within 12 months. Store separately from feed, food and stimulants.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Permissible concentration:

No occupational exposure limits have been set for any of the ingredients used in this product

Engineering controls:

Adequate ventilation is essential. The appropriate measures that need to be implemented at a worksite will depend on the way in which the product is used and on the extent of worker exposure. Provide local exhaust ventilation systems to maintain airborne concentrations below permissible exposure limits.

Personal protective equipment:

Eye / face protection: Avoid touching eyes when handling devices.

Skin protection: Avoid excessive contact with skin. Handle with gloves.

Respiratory protection: Avoid breathing vapours or mist.

9. PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

Physical state: Oily liquid

Colour: Colourless to pale yellow

Odour: Hawthorn odour

Melting point / Freezing point: 0.0 °C

Boiling point or initial boiling point and boiling point range: 248 – 255 °C

Flammability: Not flammable.

Lower and upper explosion limit / flammability limit: Not available.

Flash point: 116 °C

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

pH: Not available.

Kinematic viscosity: 4.22 mPa s at 25 °C



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Solubility: Miscible with ethanol, diethyl ether; very soluble in acetone, chloroform; soluble in benzene; insoluble in water.

Partition coefficient n-octanol / water (log value): 1.76

Vapour pressure: 0.03 mmHg

Density / relative density: 1.1191 g/cu cm at 15 °C

Relative vapour density: Not available.

Particle characteristics: Not applicable.

10. STABILITY AND REACTIVITY

Reactivity:	Not known.
Chemical stability:	This product is stable for one year from the date of manufacturing if stored in a freezer
Possibility of hazardous reactions:	Unlikely to occur.
Conditions to avoid:	Extreme heat.
Incompatible materials:	Strong bases, strong oxidizing agents, strong reducing agents.
Hazardous decomposition products:	Fire may produce harmful combustion products such as carbon oxides, acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (calculated according to GHS)

Oral > 1510 mg/kg (rat)

Dermal > 5000 mg/kg (rabbit)

Inhalation > 20 mg/L (rat)

Skin corrosion / irritation: Not irritating to skin.

Eye damage / irritation: Not irritating to eyes.

Skin sensitization: No a skin sensitizer.

Respiratory sensitization: Not a respiratory sensitizer.

Germ cell mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Reproductive toxicity: Not considered a reproductive toxicant.

Specific target organ toxicity – single exposure: Not considered a target organ toxicant after single exposure.

Specific target organ toxicity – repeated exposure: Not considered a target organ toxicant after multiple exposure.

Aspiration hazard: Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Application through a dispenser is considered to have minimal ecological impact.

Ecotoxicity

Fish

LC ₅₀ (96h)	<i>Oncorhynchus mykiss</i>	Not available.
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Birds

Acute oral LD ₅₀		Not available.
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Dietary LC ₅₀ (8d)		Not available.
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Daphnia

LC ₅₀ (48h)	<i>Daphnia magna</i>	Not available.
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Algae

EC ₅₀ (96h)	<i>Pseudokirchneriella subcapitata</i>	Not available.
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Bees

LD ₅₀		Not available.
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Worms

LC ₅₀ (14d)		Not available.
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Persistence and degradability: Low potential for adsorption to soil, high mobility. Atmospheric half-life of about 15 hours at an atmospheric concentration of 5x10⁵ hydroxyl radicals per cu cm. If released into water, p-anisaldehyde is not expected to adsorb to suspended solids and sediment based upon the estimated K_{oc}. Volatilization from water surfaces is expected to be an important fate process based upon this compound's estimated Henry's law constant. Estimated volatilization half-lives for a model river and model lake are 20 days and 230 days, respectively.

Bio-accumulative potential: An estimated BCF of 6.7 was calculated in fish using a log K_{ow} of 1.76 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

Mobility in soil: If released in soil, p-anisaldehyde is expected to have high mobility based upon an estimated K_{oc} of 53. Utilizing the Japanese MITI test, 99% of the theoretical BOD was reached in 14 days indicating that biodegradation is an important environmental fate process in soil and water.

Other adverse effects:

Not known.

13. DISPOSAL CONSIDERATIONS

Open dumping or burning of this device is prohibited. According to the regulations regarding extended producer responsibility (National Environmental Management: Waste Act, 2008; Act No. 59 of 2008), the used device needs to be incinerated or recycled by an approved recycler. Unused product that has expired needs to be incinerated.



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14. TRANSPORT INFORMATION

UN number:	Not regulated.
UN proper shipping name:	Not regulated.
Transport hazard class:	Not regulated.
Packaging group, if applicable:	Not regulated.
Environmental hazards:	Not considered a marine pollutant.
Special precautions for user:	None

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation used:

Regulations for hazardous chemical agents, 2021. Occupational Health and Safety Act, 1993.

OSHA 1993 Regulations for hazardous chemical substances.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP).

United Nations Globally Harmonized System of Classification, tenth revised edition, 2023.

ECHA: European Chemicals Agency.

16. OTHER INFORMATION

Packaging:	Sealed in a foil pouch.
Compiled:	September 2025
Reviewed:	November 2025
Revision number:	2
Next revision date:	September 2030
For more information, please contact the registration holder.	
