



# SAFETY DATA SHEET

## Tiltan

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### Product identifier

## Tiltan

Pure substance/mixture Mixture

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Insecticide  
Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Address ADAMA Makhteshim Ltd  
PO Box 60  
Beer Sheva 84100 Israel

### For further information, please contact

Email address SDS@ADAMA.COM

### Emergency Telephone

Emergency Telephone +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

## Section 2: HAZARD IDENTIFICATION

### Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302)  
Acute toxicity - Inhalation (Dusts/Mists) Category 3 - (H331)  
Acute aquatic toxicity Category 1 - (H400)  
Chronic aquatic toxicity Category 1 - (H410)

### Label Elements

#### Hazard pictograms

**Signal word**

Danger

**Hazard Statements**

H302 - Harmful if swallowed  
 H331 - Toxic if inhaled  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

P102 - Keep out of reach of children  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P270 - Do not eat, drink or smoke when using this product  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**Other Hazards**

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

| Chemical Name | Weight-% | CAS No     |
|---------------|----------|------------|
| Bifenthrin    | 6 - 10   | 82657-04-3 |

### Section 4: FIRST AID MEASURES

**First aid measures****General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.

**Inhalation**

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Ingestion**

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider**

Use personal protective equipment as required.

**Most important symptoms and effects, both acute and delayed****Symptoms**

None known

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

### Special hazards arising from the substance or mixture

No specific hazard known.

### Advice for firefighters

In the event of fire, wear self-contained breathing apparatus  
In the event of fire and/or explosion do not breathe fumes.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

#### **Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

### Reference to other sections

#### **Other Information**

See also section 8,13

## Section 7: HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on safe handling**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****National occupational exposure limits****Exposure controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye/face protection**

Tight sealing safety goggles.

**Body Protection**

Rubber boots, Apron, Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact, Gloves made of plastic or rubber.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

**Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

| <u>Property</u>  | <u>Values</u>                | <u>Method</u>      | <u>Remarks</u>                      |
|--|------------------------------|--------------------|-------------------------------------|
| <b>Appearance</b>                                      |                              |                    |                                     |
| <b>Physical state</b>                                  | : Liquid                     |                    |                                     |
| <b>Color</b>   | : opaque white               |                    |                                     |
| <b>Odor</b>  | : Faint characteristic       |                    |                                     |
| <b>Odor threshold</b>                                  | : No data available          |                    |                                     |
| <b>pH</b>  | : 4.8 - 4.9                  | EPA-OPPTS 830.7000 | 1 % aqueous solution                |
| <b>Melting point/freezing point °C</b>                 | : -                          |                    | Not Applicable                      |
| <b>Boiling point/boiling range °C</b>                  | : No data available          |                    |                                     |
| <b>Flash point °C</b>                                  | : No data available          |                    |                                     |
| <b>Evaporation rate</b>                                | : -                          |                    | No data available                   |
| <b>Flammability (solid, gas)</b>                       | : Not applicable for liquids |                    |                                     |
| <b>Upper/lower flammability or explosive limits</b>    | : No data available          |                    |                                     |
| <b>Vapor pressure kPa</b>                              | : -                          |                    | Not Applicable                      |
| <b>Vapor density</b>                                   | : No data available          |                    |                                     |
| <b>Relative density</b>                                | : 1.0 - 1.1                  | EPA-OPPTS 830.7300 |                                     |
| <b>Solubility(ies) mg/l</b>                            | : -                          |                    | Not Applicable                      |
| <b>Partition Coefficient (n-octanol/water) Log Pow</b> | :                            |                    | See Section 12 for more information |
| <b>Autoignition temperature °C</b>                     | : No data available          |                    |                                     |
| <b>Decomposition temperature °C</b>                    | : No data available          |                    |                                     |

**Kinematic viscosity** mm<sup>2</sup>/s 40 °C : 44.7 - 228.6 EPA-OPPTS 830.7100  
**Explosive properties** : No data available  
**Oxidizing properties** : No data available

**Other Information**

**Bulk density** g/ml : Not Applicable  
**Surface tension** mN/m : - No data available

## Section 10: STABILITY AND REACTIVITY

**Reactivity**

Not available.

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible Materials**

No information available

**Hazardous Decomposition Products**

None under normal use conditions.

## Section 11: TOXICOLOGY INFORMATION

**Information on toxicological effects****Acute toxicity**

|  | <u>Values</u>                | <u>Species</u> | <u>Method</u>         | <u>Remarks</u> |
|--|------------------------------|----------------|-----------------------|----------------|
| <b>Oral LD50</b> mg/kg                   | : 630                        | Rat            | EPA-OPPTS<br>870.1100 |                |
| <b>Dermal LD50</b> mg/kg                 | : > 2000                     | Rat            | EPA-OPPTS<br>870.1200 |                |
| <b>Inhalation LC50</b> mg/l/4h           | : > 0.54                     | Rat            | EPA-OPPTS<br>870.1300 |                |
| <b>Skin corrosion/irritation</b>         | : Non-irritating to the skin | Rabbit         | EPA-OPPTS<br>870.2500 |                |
| <b>Serious eye damage/eye irritation</b> | : Not irritating to eyes     | Rabbit         | EPA-OPPTS<br>870.2400 |                |
| <b>Respiratory/skin sensitization</b>    | : Not a skin sensitizer      | Guinea pig     | EPA-OPPTS<br>870.2600 |                |

**Chronic toxicity****Germ cell mutagenicity**

**Chemical Name**  
Bifenthrin : Not classified

**Carcinogenicity**

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**Chemical Name**

Bifenthrin : Not classified

**Reproductive toxicity****Chemical Name**

Bifenthrin : Not classified

**STOT - single exposure****Chemical Name**

Bifenthrin : No data available

**STOT - repeated exposure****Chemical Name**

Bifenthrin : No data available

**Aspiration hazard****Chemical Name**

Bifenthrin : No data available

**Section 12: ECOLOGICAL INFORMATION****Toxicity****Aquatic toxicity****Acute toxicity**

|                             | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u>    |
|-----------------------------|---------------|----------------|---------------|-------------------|
| Fish 96-hour LC50 mg/l      | :             |                |               | No data available |
| Crustacea 48-hour EC50 mg/l | :             |                |               | No data available |
| Algae 72-hour EC50 mg/l     | :             |                |               | No data available |
| Other plants EC50 mg/l      | :             |                |               | No data available |

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical Name**

Bifenthrin : 1800 Bobwhite quail EPA-OPPTS 850.2100

**Bees Oral LD50 µg/bee****Chemical Name**

Bifenthrin : 0.39 OECD 213, OECD 214 Oral

**Persistence and degradability****Abiotic Degradation****Water DT50 days****Chemical Name**

Bifenthrin : 161.1

**Soil DT50 days****Chemical Name**

Bifenthrin : 86.8 Field

**Biodegradation****Chemical Name**

Bifenthrin : No data available

**Bioaccumulative potential****Partition Coefficient****(n-octanol/water) Log Pow****Chemical Name**

Bifenthrin : &gt; 6.71 OECD 107

**Bioconcentration factor (BCF)****Chemical Name**

Bifenthrin : 417 OECD 305

**Mobility in soil****Adsorption/Desorption****Values****Method****Remarks****Chemical Name**

Bifenthrin : 236,610 Koc, Not mobile

**Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB

**Other adverse effects**

No information available.

## Section 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORTATION INFORMATION

**IMDG/IMO**

**UN/ID No** 3352  
**Proper shipping name** PYRETHROID PESTICIDE, LIQUID, TOXIC ( Bifenthrin )  
**Hazard Class** 6.1  
**Packing Group** III  
**Marine pollutant** Yes  
**Special precautions for user**

**RID/ADR**

**UN/ID No** 3352  
**Proper shipping name** PYRETHROID PESTICIDE, LIQUID, TOXIC ( Bifenthrin )  
**Hazard Class** 6.1  
**Packing Group** III  
**Environmental hazard** Yes  
**Special precautions for user**

**ICAO/IATA**

**UN/ID No** 3352  
**Proper shipping name** PYRETHROID PESTICIDE, LIQUID, TOXIC ( Bifenthrin )  
**Hazard Class** 6.1  
**Packing Group** III  
**Environmental hazard** Yes  
**Special precautions for user**  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable



## Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

## Section 16: OTHER INFORMATION

### Revision Note

\*\*\* - Change from previous version.

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet