

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

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Version: 1.5

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: TAMAAI

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Green Island Investments Pty Ltd

P.O Box 1822, Heidelberg 1438

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946

Poisons Information Helpline: 0861 555 777

Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

STOT RE, Category 1, H372 Causes damage to the heart, the blood and the nervous system through prolonged or repeated exposure

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting effects.

Acute Toxicity (Oral) 1 H302 Harmful if swallowed.

Acute Toxicity (Dermal) 4 H312 Harmful if in contact with skin

Acute Toxicity (Inhalation) 4 H332 Harmful if inhaled.

Label elements Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word: WARNING

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Hazard statements:

H302 Harmful if swallowed.

H312 Harmful in contact with skin

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H372 Causes damage to the heart, the blood and the nervous system through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national regulations

Special labelling of certain mixtures: None known.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Mixture Ingredients:		
Substance name (IUPAC)	CAS –No.	Concentration % By weight	Classification
Fipronil (Active ingredient)	120068-37-36	20%	Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 3, H331; STOT RE 1, H372; Aquatic Chronic 1 H410,
Three phenylethyl phenol poly-ethylene polyoxypylene ether	79-41-4	10%	Acute Tox. 4; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; STOT SE 3; H302, H332, H311, H314, H318, H335 Concentration limits: >= 1 %

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

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SECTION 4. FIRST AID MEASURES

Symptoms of human poisoning:

In severe cases of poisoning the patient may experience an apathetic state, depressed muscular tone, respiratory disturbances and trembling and muscular cramps.

If swallowed: If swallowed, immediately contact a poison control centre, doctor or nearest hospital for treatment advice. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occur, avoid contamination of respiratory passages.

If in eyes: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. After the first 5 minutes check for and remove contact lenses. Call a Poison Information Centre or doctor for treatment advice.

If on skin or clothing: Remove contaminated clothing. Rinse skin immediately with plenty of water and soap for 15 – 20 minutes. If available wash with polyethyleneglycol 400 and rinse with water. Wash clothing thoroughly before re-use.

If inhaled: Move patient to fresh air and keep at rest. Call a doctor immediately.

Notes to Physician: Treatment should include elementary aid, decontamination and symptomatic treatment. Monitor the respiratory and cardiac functions. Gastric lavage is not normally required. If more than a mouthful of TAMAAI has been ingested, administer activated charcoal and sodium sulphate.

Medical Condition Likely to be aggravated by Exposure: None known.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Carbon dioxide, foam dry chemical and water fog.

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion. Closed container may explode if pressure builds up. Toxic or irritating gas may be generated during fire.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area.

Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

For emergency responders: Use an approved/certified respirator or equivalent, isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

Environmental precautions:

Cover drains. Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

Reference to other sections:

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See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use adequate protective equipment to avoid direct contact of product. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Harmful if swallowed. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Respiratory protection is required; use an approved air-purifying respirator.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white viscous liquid - suspension concentrate.
Odour: Almost no odour.
Solubility in water: Disperses in water.
Density: 1,19 ± 0,05 g/ℓ
pH: 4

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

Slightly reactive to reactive with reducing agents, alkalis.

Conditions to avoid:

Reducing agents and alkalis.

Incompatible materials:

Reducing agents and alkalis.

Hazardous decomposition products:

No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: 500 mg/kg rats
Acute dermal LD₅₀: > 2000 mg/kg rats
Acute inhalation LC₅₀ (technical): 0,682 mg/ℓ/4 hours in rats
Skin irritation: Slight irritant.
Eye irritation: Mild irritant.
Dermal sensitization: Non-sensitizer.
Other effects:

Fipronil is non-mutagenic, non-teratogenic and no adverse effects were observed on reproductive performance. Clinical signs of toxicity consistent with the interaction of the molecule at a neurotransmitter receptor were observed in all species tested, but were completely reversible.

Carcinogenic classification and risk quantification. EPA has classified this chemical as a Group C--Possible Human Carcinogen, based on increases in thyroid follicular-cell tumors in both sexes of the rat, which were statistically significant by both pair-wise and trend analyses. There was no apparent concern for mutagenicity.

Acceptable Daily Intake (ADI): 0.0002 mg/kg bw/day.

SECTION 12. ECOLOGICAL INFORMATION

Degradability:

Results of laboratory and field studies indicate fipronil is readily degraded. The major degradates in soil (aerobic) are sulfone and amide, (anaerobic) are sulfide and amide. Photolysis of soil-applied fipronil gives the photodegradate together with sulfone and amide.

K_{oc}: 427 (Speyer 2.2) to 1248 (sandy loam).

Studies indicate that fipronil and its metabolites present a low risk of downward movement in soil; this is supported by field dissipation studies.

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ECOTOXICOLOGY:

Birds: Toxic to birds.

Acute oral LD₅₀: Bobwhite quail: 11.3 mg/kg

Mallard ducks: > 2000 mg/kg

Pheasants: 31 mg/kg

Redlegged partridges: 34 mg/kg

Fish: Very toxic to fish and aquatic organisms.

LC₅₀ (96hrs): Bluegill sunfish: 85 µg/ℓ

Rainbow trout: 248 µg/ℓ

European carp: 430 µg/ℓ

Daphnia magna: LC₅₀ (48hrs): 0.19 mg/ℓ

Algae:

EC₅₀ (96hrs): *Scenedesmus subspicatus* 0.068 mg/ℓ

EC₅₀ (120hrs): *Selenastrum capricornutum*: > 0.16 mg/ℓ

Honeybees:

Highly toxic to bees, both direct contact and by ingestion. However, no risk to bees when used as a soil or seed treatment.

Earthworms:

Non-toxic.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	ENVIROMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S. (fipronil, 20% solution ℓ)	ENVIROMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S. (fipronil, 20% solution ℓ)	ENVIROMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S. (fipronil, 20% solution ℓ)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	yes	yes	yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required.

Emergency response information: No information.

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

All sections.

Relevant H statements (number and full text):

Aquatic chronic 1: Hazardous to the aquatic Environment (Chronic 1)

H302 Harmful if swallowed.

H312 Harmful in contact with skin

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H372 Causes damage to the heart, the blood and the nervous system through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects

Training instructions: No special training required. Read label of product.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.