SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name:	Tui Indoor Plant Insect Spray RTU
Recommended Use:	For use on indoor house plants to control a wide range of common insects.
Company Address:	Evergreen Garden Care New Zealand Ltd, Truman Lane, Mount Maunganui, New Zealand
Telephone Number:	+64 7 5752160
Emergency Telephone Numbers:	0800 CHEMCALL (0800 243 622) 24 hours 0800 POISON (0800 764 766) National Poisons Centre 111 – New Zealand Fire Service
Date of Preparation:	November 2019

2. HAZARDS IDENTIFICATION:

Dangerous Goods:	Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.
Hazardous Substance (HSNO):	Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degree of Hazard) Regulations 2001, New Zealand.
HSNO Hazard Classifications:	9.1B, 9.4C.

Hazard Statements:	Toxic to aquatic life with long lasting effects. Harmful to terrestrial invertebrates.
Prevention Statements:	Read label before use. Read Safety Data Sheet before use. Avoid release to the environment.
Response Statements:	Collect Spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT	CONCENTRATION (%)	CAS NUMBER
Pyrethrins	0.03	8003-34-7
Piperonyl butoxide	0.12	51-03-6
Alcohols	<10	Various
Surfactants	<10	Secret
Water	To 100%	7732-18-5

4. FIRST AID MEASURES:

For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician.
Have product label or this safety data sheet on hand.

Inhalation:	First aid is not generally required. If in doubt contact a POISON CENTRE or doctor/physician.
Ingestion:	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a POISON CENTRE or a doctor/physician.
Eye Contact:	No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.
Skin Contact:	Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

5. FIRE FIGHTING MEASURES:

Fire and Explosion Hazards:	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Flammability:	Product is non-combustible.
Suitable Extinguishing Media:	Not combustible. Use extinguishing media suited to burning materials. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Try to contain spills, minimise spillage entering drains or water courses.
Precautions for fire fighters and special protective clothing:	Fire fighters to wear self-contained breathing apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes.
Hazards from combustion products:	If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.
HAZCHEM CODE:	3Z

6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. If contamination of sewers or waterways has occurred advise local emergency services. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber and PVC. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product.

Personal Precautions, Protective Equipment and Emergency Procedures: Refer to SDS section 7 for handling and precautionary measures. Refer to SDS section 8 for additional information and personal protection equipment to prevent contamination of skin, eyes and personal clothing.

Environmental Precautions: Contain - prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services.

Methods and Materials for Containment and Clean up: Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Collect spilled product and place in properly labelled sealable container for disposal.
Any spill residue washings should be placed in properly labelled sealable container for disposal.
If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains.
If contamination of sewers or waterways has occurred advise local emergency services.
Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING & STORAGE:

Precautions for safe handling and storage:

Handling: Read label before use.
Keep out of reach of children.
Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.
Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
Avoid skin and eye contact and breathing in vapours, mists and spray. Use in a well-ventilated area to avoid accumulation of vapours, mist and spray.
After work, remove protective clothing and equipment, wash hands, arms, face and exposed skin before eating, drinking, and chewing gum, using tobacco or using the toilet. Clean up spilled material immediately and wash clothing, equipment and work area after use.

Storage: Keep out of reach of children.
Store away from children, animals, food, feedstuffs, drink containers, fertilisers and seeds.
Store in a tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight.
Although this is classed as a Dangerous Good, you may not need a license to store it. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.
Keep containers closed when not in use and check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

The following standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

Occupational Exposure Limits:

No ADE, PDE or TEL values are set by EPA for this substance at this time. No WES values are set by EPA for this substance at this time.

Exposure standards for ingredients:
Pyrethrum (dermal sensitiser), (CAS No. 8003-34-7), TWA = 5 mg/m^3

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls:

This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan. Keep containers closed when not in use.

Personal Protective Equipment:

Respiratory Protection:
Usually, no respirator is necessary when using this product. However, if you have any doubts consult the standards mentioned above.

Skin protection:
You should avoid contact even with mild skin irritants. Therefore, you should wear suitable impervious elbow-length gloves and facial protection when handling this product for lengthy periods. See below for suitable material types. Wash hands, arms, face and exposed skin thoroughly after use.

Eye protection:
Eye protection such as protective glasses or goggles is recommended when this product is being used.

Protective Material Types:
We suggest that protective clothing be made from the following materials: rubber, PVC.
Wash protective clothing thoroughly before storage or reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Cloudy White Liquid
Odour:	Sweet Odour
pH:	No data
Vapour Pressure (20°C):	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	As for water.
Boiling Point (°C):	Approximately 100°C at 100kPa.
Freezing/Melting Point (°C):	Approximately 0°C.
Solubility in water:	Dispersible.
Specific Gravity:	Approximately 1.0.
Evaporation Rate:	As for water.

10. STABILITY and REACTIVITY:

Chemical Stability:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to avoid:	Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight
Incompatible materials:	No particular Incompatibilities.
Hazardous decomposition products:	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation:	This product will not undergo polymerisation reactions

11. TOXICOLOGICAL INFORMATION:

Potential Health Effects: This section includes possible adverse effects, which could occur if the product is not handled in the recommended manner.

Eye Contact:	**Short Term Exposure:** This product may be irritating to eyes but is unlikely to cause anything more than mild transient discomfort. **Long Term Exposure:** No data for health effects associated with long term eye exposure.
Skin Contact:	**Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However, product may be irritating, but is unlikely to cause anything more than mild transient discomfort. **Long Term Exposure:** No data for health effects associated with long term skin exposure.
Ingestion:	**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is not harmful. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort. **Long Term Exposure:** No data for health effects associated with long term ingestion.
Inhalation:	**Short Term Exposure:** Available data indicates that this product is not harmful. In addition, product is unlikely to cause any discomfort or irritation. **Long Term Exposure:** No data for health effects associated with long term inhalation.
Carcinogen Status:	**SWA**: No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** Piperonyl Butoxide is Class 3 - unclassifiable as to carcinogenicity to humans. See the IARC website for further details. A web address has not been provided as addresses frequently change.

12. ECOLOGICAL INFORMATION:

Ecotoxicity:	This product is toxic to aquatic life with long lasting effects.
Other Information:	This product is harmful to terrestrial invertebrates. This product is toxic to fauna.

13. DISPOSAL CONSIDERATIONS:

Disposal methods: Dispose of this product by using in accordance with the product label directions or into a suitable approved landfill facility.
Do not dispose of this product; spray mix or equipment cleaning water down drains or sewers.
Container disposal –Crush and bury triple rinsed empty containers in a suitable approved landfill facility.

14. TRANSPORT INFORMATION:

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Maximum volume permitted to be transported in a passenger service vehicle: 1 litre.

UN Number: 3082.

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

DG class: 9 Miscellaneous Dangerous Goods.

Packing group: III

HAZCHEM Code: 3Z

15. REGULATORY INFORMATION:

New Zealand HSNO Classification: Classified as hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

EPA New Zealand Approval Code: HSR000085

HSNO Controls: Tui Indoor Plant Insect Spray must not be applied onto or into water.

16. OTHER INFORMATION:

Date of preparation of SDS: November 2019.

Abbreviations in SDS:
ADE: Acceptable daily exposure values set by EPA.
EPA: The Environmental Protection Authority of New Zealand.
HSNO: Hazardous Substances and New Organisms
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
PDE: Potential daily exposure values set by EPA.
pH: A measurement of how acidic or alkaline a material is using a scale of 1 -14. pH 1 is strongly acidic, pH 14 is strongly alkaline.
TEL: Tolerable exposure limit set by EPA.
WES: Workplace exposure standard set by EPA or Worksafe New Zealand.
WES-TWA: Workplace Exposure Standards, time weighted average set by EPA or Worksafe New Zealand.

DISCLAIMER:
This product must be used strictly as directed. To the maximum extent permitted by law Evergreen Garden Care New Zealand Limited, its officers, employees, agents, distributors and retailers shall have no liability to any purchaser or user of this product, or any other person, for any loss, damage or injury (including personal injury) arising out of the use or storage of this product otherwise than in accordance with the directions for use and storage.

---------- End of SDS ----------