Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **YATES NATURE'S WAY FRUIT & VEGIE GUN**

Recommended Use: Ready to use insecticide for the control of aphids, white fly, caterpillars and a wide range of insects indoors and outdoors.

Supplier: Yates New Zealand, a division of DuluxGroup (New Zealand) Pty Ltd
ABN 55 133 404 118
Co. 2355191

Street Address: The Gate Industrial Park,
373 Neilson St, Onehunga
Auckland, New Zealand

Telephone Number: +64 9 636 2800
Facsimile: +64 9 636 2802
Emergency Telephone: CHEMCALL 0800 243 622 (ALL HOURS)

2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.
Subclass 9.4 Category C - Substances that are harmful to terrestrial invertebrates.

Hazard and Precautionary Information:
Toxic to aquatic life with long lasting effects. Harmful to terrestrial invertebrates. Keep out of reach of children. Read label before use. Read Safety Data Sheet before use. Avoid release to the environment. Collect spillage. In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Pyrethrins (pyrethrum)	8003-34-7	0.03%	R20/21/22 R50/53
Piperonyl butoxide	51-03-6	0.12%	-
Water and other non-hazardous components	-	to 100%	-
Ethyl alcohol	64-17-5	1-<10%	R11

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:
Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

Skin Contact:
If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eye Contact:
If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:
If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Medical attention and special treatment:
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:
Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes.

Precautions for fire fighters and special protective equipment:
Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:
Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:
If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:
Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Conditions for safe storage: Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for constituent(s):

Ethyl alcohol: 8hr WES-TWA = 1,000 ppm (1,880 mg/m^3)
Pyrethrum: WES-TWA 5 mg/m^3, sen

As published by the New Zealand Occupational Safety and Health Service (OSH).

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

`Sen' Notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:
Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal Protective Equipment:

Avoid contact with eyes and skin and breathing in spray mist. Wash hands and exposed skin thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	White Cloudy
Odour:	Mild
Solubility:	Miscible in water.
Specific Gravity:	1.00 approx.
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not applicable
Boiling Point/Range (°C):	100 (water)
Decomposition Point (°C):	Not available
pH:	Not available
Evaporation Rate:	Not available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid exposure to heat, sources of ignition, and open flame.
Incompatible materials:	Incompatible with strong oxidising agents.
Hazardous decomposition products:	Oxides of carbon.
Hazardous reactions:	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: No adverse effects expected, however, large amounts may cause nausea and vomiting.

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation. May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Inhalation: Breathing in mists or aerosols may produce respiratory irritation.

Long Term Effects:
No information available for the product.

Toxicological Data: No LD50 data available for the product. For the constituent Pyrethrum (1):
Oral LD50 (rat): 2370 mg/kg (male); 1030 mg/kg (female)
Dermal LD50 (rat): >1500 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways and fishponds. Do not allow spray to drift onto aquatic environments, other crops or desirable plants or outside the target area. Do not spray over bees or plants in flower.

Aquatic toxicity: Toxic to fish.

Terrestrial toxicity: Toxic to bees.

13. DISPOSAL CONSIDERATIONS

Disposal methods:
Refer to local government authority for disposal recommendations. Rinse empty container, puncture and recycle or dispose of safely with domestic rubbish.

14. TRANSPORT INFORMATION

Road and Rail Transport
Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.



UN No: 3082
Class-primary 9 Miscellaneous Dangerous Goods
Packing Group: III

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PYRETHRINS AND PIPERONYL BUTOXIDE)
Hazchem Code:	2X

Marine Transport
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.
This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN No:	3082
Class-primary:	9 Miscellaneous Dangerous Goods
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PYRETHRINS AND PIPERONYL BUTOXIDE)

Air Transport
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No:	3082
Class-primary:	9 Miscellaneous Dangerous Goods
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PYRETHRINS AND PIPERONYL BUTOXIDE)

15. REGULATORY INFORMATION

Classification:
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.
Subclass 9.4 Category C - Substances that are harmful to terrestrial invertebrates.

16. OTHER INFORMATION

(1) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

Reason(s) for Issue:
First Issue Primary SDS

This safety data sheet has been prepared by SH&E Shared Services.
This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DuluxGroup Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.