



SAFETY DATA SHEET

Date: 26/09/2011

Green Reaper

Issue number 4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: GREEN REAPER

USE: Concentrate insecticide solution for dilution with water prior to application to surfaces.
Not for direct application to plants or animals.

COMPANY IDENTIFICATION: Green Reaper NZ Ltd
P O Box 305 298, Triton Plaza,
North Shore City 0757, Auckland
Tel 0508 2 47336 (0508 2 GREEN REAPER)
Email info@greenreaper.co.nz
Website www.greenreaper.co.nz

Emergency Telephone Numbers: NATIONAL POISON CENTRE 0800 764 766
POLICE, FIRE, AMBULANCE Dial 111

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

ERMA New Zealand Approval Code: HSR008029
HSNO Hazard Classification : 6.5A, 6.5B, 9.1A, 9.4B
Refer to www.epa.govt.nz for Controls for this substance.

Hazard Statements:

H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H401 Very toxic to aquatic life
H442 Toxic to terrestrial invertebrates

Precautionary Statements:

P103 Read label before use
P261 Avoid breathing mist or spray.
P272 Contaminated work clothing should not be allowed out of the work place.
P273 Avoid release to environment.
P280 Wear gloves and eye protection when handling.
P285 In case of inadequate ventilation, wear respiratory protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name	CAS. No	% w/w
Permethrin	52645-53-1	< 1
Hydrocarbon solvent	64742-94-5	< 1
Citronella oil	8000-29-1	< 0.1
Eucalyptus oil	8000-48-4	< 0.1
Other ingredients including water	proprietary	balance

Green Reaper

4. FIRST AID

Consult the National Poisons Centre, telephone 0800 764 766 [0800 POISON] or a doctor for medical advice. Have product container or label at hand.

EYES: Hold eyes open and carefully rinse eyes with running water for 15 minutes. After 5 minutes, remove contact lenses, if present and easy to do. Get medical attention if irritation persists.

SKIN: Wash affected area with soap and water. If skin irritation or rash occurs, get medical attention. Wash any contaminated clothing and footwear before reuse.

INGESTION: Rinse mouth with water then give water to drink. Call a Poison Centre or doctor for treatment advice. Do not induce vomiting unless told to do so by a Poison Centre or doctor.

INHALATION: Move person to fresh air. Seek medical advice if ill-effects occur (e.g. shortness of breath, prolonged coughing).

ADVICE TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING

FLASH POINT: Non flammable

FLAMMABLE LIMITS: LFL: Not determined UFL: Not determined

EXTINGUISHING MEDIA: Water spray, water fog, foam, CO₂, dry chemical.

FIRE & EXPLOSION HAZARDS: Avoid breathing smoke.

FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and personal protection clothing.

6. ACCIDENTAL RELEASE

SPILLS: Contain any spillage. Do not contaminate watercourses or the ground. Soak up liquid with inert absorbent, sand or earth. Collect in suitable labelled container for disposal.

DISPOSAL: Dispose of to an approved landfill in accordance with local regulations.

7. HANDLING AND STORAGE

HANDLING: Use in well-ventilated area. Wear gloves and protect eyes from splashes. Do not breathe in spray mist. Use in well ventilated area. Wash hands before meals and after use. Avoid contamination of watercourses, drains, sewers and ground. Do not apply directly onto or into water. Avoid uses or applications harmful to beneficial invertebrates, e.g. honey bees.

STORAGE: Store in tightly closed original container in a secure cool dry place, out of reach of children, and away from food, drink and animal foodstuffs. Exposure to sunlight will degrade active ingredient.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: No Workplace Exposure Standard (WES) have been set by OSH, NZ Department of Labour for this substance.

Green Reaper

ENGINEERING CONTROLS: Use in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Face/Eye protection: Wear eye protection where there is risk of splashes or contact from spray mist.

Skin protection: Rubber gloves when risk of skin contact.

Respiratory protection: Use in a well-ventilated area. Wear a dust mask or similar if risk of inhaling atomized mist/spray.

Other: Protect clothes from contamination.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Opaque, green
Odour:	Citronella/eucalyptus
Flash point (°C):	Non flammable
Auto ignition temperature (°C):	Not known
Density @ 15°C, g/ml:	~ 1.0
Solubility in water:	Completely miscible
pH:	Not determined

10. STABILITY AND REACTIVITY

STABILITY (CONDITIONS TO AVOID): Stable under normal storage and use conditions. Avoid extremes of temperature, e.g. below 0 °C and above 40 °C.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents or strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Irritating fumes/gases (carbon oxides) may be evolved in the event of a fire.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

EYE: May irritate eyes if direct contact with product.

SKIN: May cause an allergic skin reaction from prolonged or repeated contact if person has history of dermal allergic reaction.

INGESTION: May be harmful if swallowed in large quantities.

INHALATION: May cause respiratory irritation from prolonged or repeated contact to spray mist.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No adverse effects expected from normal use.

CANCER INFORMATION: No adverse effects identified.

TERATOLOGY (BIRTH DEFECTS): No adverse effects identified.

REPRODUCTIVE DEFECTS: No adverse effects identified.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): No adverse effects identified.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: No information.

MOVEMENT AND PARTITIONING: Not determined.

DEGRADATION AND PERSISTENCE: Permethrin will degrade in soil and water.

ECOTOXICOLOGY: Concentrate and ready-to-use product highly ecotoxic to fish and toxic to terrestrial invertebrates. Avoid direct application onto or into water. Avoid use where beneficial invertebrates, e.g. honey bees, might be affected.

No Environmental Exposure Limits (EEL's) have been set for this substance.

Ecotoxicity data:

Permethrin (active)	Rainbow trout	LC ₅₀ (96hr) 0.0001 to 0.0005 mg/L
	Water flea	LC ₅₀ (48 hr) 0.00055 mg/L
	Honey bee	LD ₅₀ (48hr) topical 0.025 µg /bee

13. DISPOSAL

Dispose of any waste, e.g. left over concentrate or containers, in accordance with Regional Authority or local council bylaws. Rinse empty containers with water, crush and send to an approved landfill. Do not use empty containers for storing other products.

14. TRANSPORT REGULATIONS

TRANSPORT INFORMATION:

UN Number: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S (contains permethrin)

HAZCHEM: 2Z

Class: 9

Sub-class -

Packing Group: III (or IV) - refer section 15

15. REGULATORY INFORMATION

Classified as hazardous under the HSNO Act 1996 according to criteria of Minimum Degrees of Hazard (Threshold) Regulations, 2001.

New Zealand Approval Code: HSR008029

Refer to Section 2 for classifications and to www.epa.govt.nz for Controls.

Packaging requirements: In quantities greater than 1 L must be packaged according to Schedule 3 (UN PG III), and according to either Schedule 3 or Schedule 4 when in quantities less than 1 L.

16. OTHER INFORMATION

Date of Issue: 26th September, 2011

Reason for Issue: Change from ERMA to EPA

Replaces: Safety Data Sheet dated 14th April 2011.

Green Reaper

Abbreviations:

EPA	Environmental Protection Authority
HSNO	Hazardous Substances & New Organisms
LC or LD ₅₀	Lethal dose /lethal concentration for 50% population
OSH	Occupational Safety & Health

Sources of information:

ERMA www.epa.govt.nz

Supplier information

Before using any product, read its label carefully and ensure that you understand its contents. This information is, to the best of our knowledge and belief, accurate and reliable at the date of publication. The information relates only to the specific material designated and may not be valid for such material if it is used in combination with any other material(s). Green Reaper NZ Ltd disclaims any liability for loss or damage suffered from the use of this information. This does not affect your statutory rights. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for his/her own particular use.

END of SAFETY DATA SHEET