Perigen® Defence Residual Insecticide

Date of Issue: January 5th, 2004

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Perigen® Defence Residual Insecticide

Other names: None

Product code: Not available

Recommended A liquid insecticide concentrate for use in general purpose pest control and

use: fabric and bed-net impregnation

Supplier: Bayer Environmental Science – A Business Group of

Bayer CropScience Pty Ltd ABN 87 000 226 022

Address: 391 - 393 Tooronga Road, East Hawthorn

Victoria 3123, Australia

Telephone: (03) 9248 6888 **Facsimile:** (03) 9248 6800

Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6888

Emergency

Telephone 1800 033 111 – Orica SH&E Shared Services

Number:

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE - DANGEROUS GOOD

Will irritate eyes and skin. Not flammable.

Hazard Hazardous according to criteria of Worksafe Australia.

designation:

Risk phrases: R65 – Harmful: May cause lung damage if swallowed

Safety phrases: Not applicable

ADG Not "dangerous goods" for transport by road or rail according to the

classification: Australian Code for the Transport of Dangerous Goods by Road and Rail.

SUSDP

classification: Schedule 6 (Standard for the Uniform Scheduling of Drugs and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Permethrin 25:75	[52645-53-1]	500
Hydrocarbon solvent	[64742-94-5]	335
Other ingredients	(non hazardous)	225

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Inhalation: Remove person to fresh air. Keep at rest. Seek medical advice if exposure

has been more than trivial. Administer artificial respiration if breathing has

stopped.

Skin contact: Remove all contaminated clothing and shoes. Wash off skin immediately

with soap and plenty of water. Seek medical advice if irritation persists.

Launder contaminated clothing before re-use.

Eye contact: Immediately rinse eyes thoroughly, including under eyelids, with running

water for at least 15 minutes. Seek immediate medical advice.

Ingestion: Seek immediate medical advice.

First Aid Provide an eyewash station in the workplace.

Facilities:

Symptoms: Perigen contains the synthetic pyrethroid permethrin and a hydrocarbon

solvent, symptoms are likely to be limited to irritation associated with

permethrin and effects of the solvent.

Medical attention: There is no specific antidote. Treat symptoms. This product contains a

hydrocarbon solvent. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or

pulmonary edema.

5. FIRE FIGHTING MEASURES

Extinguishing

media:

Hazards from

combustion products:

Precautions for fire fighters:

No data available.

This product is a combustible liquid. Fire fighters should wear full protective

Foam, dry chemical or water spray. Do not use a water jet from a fire hose.

clothing and self-contained breathing apparatus. Do not release

contaminated water into the environment. Keep intact containers cool by

spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective clothing and boots. Prevent spill from entering drains, sewers or any body of water. Contain and absorb with sand, earth or inert absorbent. Scoop or shovel into sealable containers for disposal in accordance with applicable local, state and federal regulations.

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7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with skin and eyes and do

> not inhale spray mist. Use only in a well-ventilated area. Do not apply in the presence of naked flames, hot surfaces or unprotected electrical

equipment. Use proper grounding procedures.

Store product in the closed, original container in a cool, well-ventilated area Storage:

away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure No exposure standard has been assigned by the National Occupational standards:

Health and Safety Commission (Worksafe Australia). The manufacturer of the hydrocarbon solvent recommends an occupational exposure limit of

100 ppm total hydrocarbons.

Engineering controls:

Control process conditions to avoid contact. Use local exhaust ventilation.

Keep product away from sources of ignition.

Personal

Protective

Eves: Avoid contact with the eyes. Wear safety goggles. Wear a

face shield if splashing is possible.

Wear suitable protective clothing. Protective clothing must be **Equipment:** Clothing:

stored separately from private clothing.

Avoid contact with the skin. Wear elbow-length PVC or nitrile Gloves:

gloves.

Wear an approved respirator to prevent inhalation, if other Respiratory:

control measures are inadequate.

Do not eat, drink or smoke until after washing. Wash Other:

thoroughly after handling. After each day's use wash gloves,

goggles and contaminated clothing.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear vellow limpid liquid Odour: Aromatic solvent odour

No data Vapour pressure: **Boiling point:** 184°C Freezing/melting Not available

point:

Solubility: **Emulsifies Density:** 1.06 at 20°C

Flash Point: 72°C

Flammability 0.6 - 7.0% (solvent)

(explosive) limits:

Auto-ignition > 450°C (solvent)

temperature:

Percent volatiles: ~38

Octanol/water

Not available

partition coefficient:

Emulsifiable concentrate Formulation:

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10. STABILITY AND REACTIVITY

Chemical Not available

stability:

Hazardous Not available

polymerisation:

Conditions to Not available

avoid:

Incompatible Incompatible with strong oxidising agents

materials:

Hazardous Not available

decomposition products:

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation: Avoid breathing vapour / spray / fumes. Inhalation of spray may produce

respiratory irritation and can result in headaches, dizziness, drowsiness, and

possibly nausea.

Skin contact: Mild irritant and drying to the skin. The material should not be allowed to

come into contact with the skin.

Eye contact: Irritating. The material should not be allowed to contact the eyes.

Ingestion: Harmful if swallowed.

Other: None

ANIMAL TOXICITY DATA – PRODUCT: No data available for the product.

ANIMAL TOXICITY DATA - INDIVIDUAL INGREDIENTS:

Acute:

Oral toxicity: LD₅₀ rat: 1479mg/kg (permethrin 25:75 in corn oil)

Dermal toxicity: LD₅₀ rabbit: >2000mg/kg (permethrin)

Inhalation

Not available

toxicity:

Skin irritation: Mild irritant – rabbit (permethrin)

Eye irritation: Mild irritant – rabbit (permethrin)

Sensitisation: Non-sensitiser

Chronic:

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Permethrin is not mutagenic, teratogenic or carcinogenic. Skin sensitisation tests carried out by Bayer CropScience indicate that permethrin active ingredient was not an skin sensitiser. At high doses, the solvent caused reversible damage to the liver and kidney of male rats. These effects are not relevant to humans at occupational levels of exposure.

12. ECOLOGICAL INFORMATION

Fish toxicity: Permethrin is toxic to fish

Daphnia toxicity: Data not available

Toxicity to algae: Data not available

Bird toxicity: Data not available

Bee toxicity: Permethrin is toxic to bees

Other: NO data available

Environmental Permethrin degrades rapidly in soil and water.

fate, persistence and degradation:

13. DISPOSAL CONSIDERATIONS

Follow Avcare guidelines. Do not discharge into drains. Do not incinerate. Dispose of waste material via a licensed waste disposal contractor to a regulated landfill.

14. TRANSPORT INFORMATION

UN number: Not applicable **Proper shipping** Not applicable

name:

Class and Not "dangerous goods" for transport by road or rail according to the **Subsidiary Risk:** Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packing Group: Not applicable EPG: Not applicable Hazchem code: Not applicable

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 57184

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16. OTHER INFORMATION

Trademark Perigen® is a Registered Trademark of Bayer

information:

Preparation Replaces July 16, 2001 edition.

information: Reason for update: Conversion to 16 heading format.

Data sources: Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS