



SAFETY DATA SHEET

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Tyrant 50/50 SE (HSE No.:7335)

Revision No. 2

Issue date: 01 September 2005

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

Product name	Tyrant 50/50 SE
Company	PelGar International Ltd Unit 13, Newman Lane Industrial Estate, Newman Lane, Alton, Hampshire GU34 2QR Tel +44 (0) 1420 80744 Fax +44 (0) 1420 80733
Product code	409

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Propylene glycol 1-10% CAS: 57-55-6
	Tetramethrin 1-10% CAS: 7695-12-0 N;R50/53
	Alpha-cypermethrin 1-10% CAS: 67375-30-8 EINECS: 257-842-9 T;R25 Xi;R37 Xn;R48/22 N;R50/53
	Solvent Naphtha (petroleum), Heavy aromatic 1-10% N;R51/53 Xn;R65
	Silicon dioxide 1-10%

3. HAZARDS IDENTIFICATION

Most important hazards	Harmful if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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4. FIRST AID MEASURES

Skin contact	May cause skin irritation in susceptible persons. Remove contaminated clothing Wash off immediately with soap and plenty of water. If irritation persists obtain medical attention Contaminated clothing should be washed and dried before re-use
Eye contact	May cause eye irritation of susceptible persons. Rinse immediately with plenty of water for at least 15 minutes. If irritation persists obtain medical attention
Inhalation	Inhalation of mist or spray, may cause irritation of the respiratory system. Move to fresh air. Obtain medical advice immediately.
Ingestion	Harmful if swallowed. Do not induce vomiting. If conscious give a small amount of milk or water to drink and obtain medical attention. Show the container label or this safety data sheet to the doctor
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label or this safety data sheet where possible).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	The product itself does not burn. Keep fire exposed containers cool by spraying with water if exposed to fire. Fight surrounding fire with dry chemical, foam or water spray.
Specific hazards	This product is not flammable. However, toxic fumes may be evolved in the event of fire.

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Special protective equipment for firefighters In the event of fire, wear a self-contained breathing apparatus, chemical protection suit, gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions Prevent further leakage or spillage if safe to do so. Contain or absorb leaking liquid with earth or sand. Do not let product enter drains. If substance has entered a water course or sewer or contaminated soil or vegetation, inform the appropriate authority.

Methods for cleaning up Soak up with inert absorbent material. Transfer to a suitably labelled container. Subsequently, wash the contaminated area with water, or detergent and water, taking care to prevent the washings from entering surface water drains.

7. HANDLING AND STORAGE

Handling If splashing is likely to occur wear approved eye protection. If spray mists are likely, wear a suitable approved respirator. If skin contact is likely to occur wear rubber gloves and suitable impervious protective clothing. Use in a well ventilated area where possible. Always use good personal hygiene procedures when handling chemicals. Do not smoke eat or drink while handling this product. Wash hands, face and exposed skin after using and before eating, drinking or smoking. Read the label before use.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food and animal feedstuffs

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s) Propylene glycol
TWA(ppm):150 TWA(mg/m3):470
Solvent Naphtha (petroleum), Heavy aromatic
TWA(ppm):25 (for trimethyl benzene) TWA(mg/m3):125 for (trimethyl benzene)
Silicon dioxide
TWA(mg/m3):6 (Total Dust) 2.4 (Respirable dust).

Respiratory protection Suitable approved respirator if exposed to spray mists

Hand protection Rubber or plastic gloves

Eye protection If splashes are likely to occur, wear goggles

Skin and body protection Impervious clothing boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Description Liquid

Colour White

Odour Characteristic

pH Not available

Boiling point/range No data

Flash point Not applicable

Explosive properties Not applicable

Oxidising properties Not applicable

Relative density 1.05 - 1.35

Water solubility Miscible

Partition coefficient (n-octanol/water) No data

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Melting point/range No data**Autoinflammability** Not applicable**10. STABILITY AND REACTIVITY****Stability** Stable under normal conditions.**Conditions to avoid** Heat, flames and sparks.**Hazardous decomposition products** Combustion or thermal decomposition will produce toxic and irritant fumes**11. TOXICOLOGICAL INFORMATION****Acute toxicity** ORL RAT LD50 > 4000 mg/kg (calculated)
DERMAL RAT LD50 > 5000 mg/kg (rat). (calculated)**Sensitisation** May cause sensitisation of susceptible persons by skin contact or by inhalation of spray mist.**Repeated or prolonged exposure** Repeated or prolonged skin contact may cause skin irritation and sensitisation of susceptible persons.**mutagenic effects** Not available**carcinogenic effects** Not available**12. ECOLOGICAL INFORMATION****Ecotoxicity effects** Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.**Further Information** This product must not enter water discharge system. Inform appropriate authority if large spillage enters drains.**13. DISPOSAL CONSIDERATIONS****General Information** Dispose of as hazardous waste in compliance with local and national regulations.**Contaminated packaging** Dispose of as unused product.**14. TRANSPORT INFORMATION****ADR/RID****UN-No** 3082
Class 9**Packing group** III
Hazard ID 90**Proper shipping name** ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (contains alpha-
cypermethrin, tetramethrin)**IMO****UN-No** 3082
Class 9
EmS F-A S-F**Packing group** III
Marine pollutant .**IATA-DGR****UN-No** 3082
Class 9**Packing group** III
packaging 914**15. REGULATORY INFORMATION****Symbol(s):** Xn - Harmful; N - Dangerous for the environment**R-phrases(s)** R22 - Harmful if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S-phrases

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 - Do not empty into drains.
S37/39 - Wear suitable gloves and eye/face protection.
S60 - This material and its container must be disposed of as hazardous waste.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R25 - Toxic if swallowed.
R37 - Irritating to respiratory system.
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.

Recommended restrictions

Insecticide for professional use only.

Sources of key data used to compile the datasheet

CHIP 2002
EH40
Raw material suppliers Safety Data Sheets.

Replaces

Revision Number 1 Changes to Section 2, 3, 4, 13, 15, 16