



SAFETY DATA SHEET

Page 1 of 4

Tyrant Super ME (HSE No.: 7677)

Revision No. 3

Issue date: 19 December 2006

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

Product name	Tyrant Super ME
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	411

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Alpha-cypermethrin 1-10% CAS: 67375-30-8 EINECS: 257-842-9 T;R25 Xi;R37 Xn;R48/22 N;R50/53
	Alcohol ethoxylate 10-20% Xi;R41
	Piperonyl butoxide 10-20% N;R50/53
	Tetramethrin 1-10% CAS: 7695-12-0 N;R50/53

3. HAZARDS IDENTIFICATION

Most important hazards	Harmful if swallowed. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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4. FIRST AID MEASURES

Skin contact	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 Irritating to skin.
Eye contact	Risk of serious damage to eyes. 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	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. Harmful if swallowed.
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label 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 (oxides of carbon, hydrogen chloride and hydrogen fluoride) may be evolved in the event of fire. Prevent run off from entering watercourses or sewers.

Tyrant Super ME

Revision No. 3

Issue date: 19 December 2006

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear suitable protective clothing, gloves and eye/face protection. See section 8.

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 or watercourses.

Methods for cleaning up Soak up with inert absorbent material. Transfer to a suitably labelled container. Subsequently, clean spill area and any tools used with a suitable solution of caustic soda or soda ash and an appropriate alcohol (i.e. methanol, ethanol or isopropanol). Then wash with strong soap and water solution. Collect all washings for disposal.

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 container tightly closed. Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection Suitable approved respirator if exposed to spray mists

Hand protection Rubber or plastic gloves

Eye protection Goggles

Skin and body protection Impervious clothing, boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Description Liquid

Colour Pale Yellow

Odour Mild/Detergent

Flash point Not applicable

Explosive properties Not applicable

Oxidising properties Not available

Vapour pressure Not available

Relative density 1.03

Water solubility Miscible

Fat solubility Not available

Partition coefficient (n-octanol/water) Not available

Viscosity Not available

Vapour density Not applicable

Tyrant Super ME

Revision No. 3

Issue date: 19 December 2006

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 alpha-cypermethrin 5000mg/Kg; Tetramethrin > 5000mg/Kg; Alcohol ethoxylate >2000mg/Kg. DERMAL RAT LD50 Alcohol ethoxylate >2000mg/Kg Preparation classified as harmful if swallowed.

Primary irritation Risk of serious damage to eyes. May cause skin irritation and/or dermatitis.

Sensitisation Inhalation of aerosol or skin contact may cause sensitisation of susceptible persons.

mutagenic effects Not available

carcinogenic effects Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects Very 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	Packing group III
	Class 9	Hazard ID 90
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains alpha-cypermethrin, tetramethrin and piperonyl butoxide)	

IMO

	UN-No 3082	Packing group III
	Class 9	Marine pollutant YES
	EmS F-A S-F	

IATA-DGR

	UN-No 3082	Packing group III
	Class 9	packaging 914

15. REGULATORY INFORMATION

Symbol(s): Xn - Harmful; N - Dangerous for the environment



R-phrases(s) R22 – Harmful if swallowed.
R41 - Risk of serious damage to eyes.

Tyrant Super ME

Revision No. 3

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S-phrase(s) R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
To avoid risks to man and the environment, comply with the instructions for use.
S 2 - Keep out of the reach of children.
S20 - When using do not eat or drink.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28 - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.
S29 - Do not empty into drains.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S57 - Use appropriate containment to avoid environmental contamination.
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R25 - Toxic if swallowed.
R37 - Irritating to respiratory system.
R41 - Risk of serious damage to eyes.
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.

Recommended restrictions

Insecticide for professional use only.

Sources of key data used to compile the datasheet

Raw material suppliers Safety Data Sheets.
CHIP 2002
EH40

Replaces:

Revision Number 2 Changes to Section 2, 3, 4, 12, 15, 16. Changes caused by the reclassification of piperonyl butoxide