



International

SAFETY DATA SHEET

Vulcan P RFU (HSE No.:7437)

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Revision No. 3

Issue date: 19 December 2006

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

Product name	Vulcan P RFU
Company	PelGar International Ltd Unit 13, Newman Lane Industrial Estate, Newman Lane, Alton, Hampshire GU34 2QR
Telephone	Tel +44 (0) 1420 80744
Telefax	Fax +44 (0) 1420 80733
Product code	102

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Permethrin 0.25% CAS 52645-53-1 Xn; R20/22 R43 N; R50/53 Piperonyl Butoxide 0.75% CAS 51-03-6 N; R50/53 Tetramethrin 0.125% CAS 7696-12-0 N; R50/53 Petroleum Distillates Hydrotreated Light Oil 90-100% CAS: 64742-47-8 Xn;R65
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3. HAZARDS IDENTIFICATION

Most important hazards	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.
Specific hazards	Product can accumulate static charges which can cause an incendiary electrical discharge. Material can form flammable mixtures or can burn only if heated to temperatures at or above the flash point.

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
Eye contact	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
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	Keep fire exposed containers cool by spraying with water if exposed to fire. Fight surrounding fire with foam, dry chemical, water spray or mist.
Extinguishing media which must not be used for safety reasons	Do not use water jets
Specific hazards	Combustible material. Fire may cause toxic fumes (oxides of carbon) to evolve. Avoid spraying water directly into storage containers due to danger of boilover.

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Special protective equipment for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection...See section 8. Keep public away.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Contain or absorb leaking liquid with earth or sand. Prevent liquid entering watercourses, sewers or basements. Prevent product from entering drains. If substance has entered a watercourse 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. For large spills, recover by pumping (use an explosion proof or hand pump).

7. HANDLING AND STORAGE

Handling	<p>Material will accumulate static charge, which may cause an electrical spark (ignition source). Take precautionary measures against static discharges Do not apply in the presence of naked flames, hot surfaces or unprotected electrical equipment. Ensure all equipment is electrically grounded before beginning transfer operations Container remains hazardous when empty. Continue to observe all precautions. The product is flammable but not readily ignited. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition - No smoking.</p> <p>If splashing is likely to occur wear approved eye protection. If spray mists are likely, wear a suitable approved respirator.</p> <p>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.</p> <p>Keep product and empty container away from heat and sources of ignition.</p>
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 Store in accordance with Health and Safety Executive's Guidance Note HSG71 Keep away from oxidising agents Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)	Petroleum Distillates Hydrotreated Light Oil TWA(ppm):300
Engineering measures	The use of mechanical (explosion proof) dilution ventilation is recommended whenever this product is used in a confined space.
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	Light yellow
Odour	Aromatic
pH	Not applicable
Boiling point/range	200 - 250°C

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Flash point	>70°C
Explosive properties	0.6 - 8.0%
Vapour pressure	0.03kPa at 20C
Relative density	0.8
Water solubility	Immiscible @ 20C
Viscosity	No data
Vapour density	>1
Melting point/range	Not available
Autoignition temperature	>200C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Strong oxidising agents strong bases
Hazardous decomposition products	Oxides of carbon, smoke

11. TOXICOLOGICAL INFORMATION

Acute toxicity	ORL RAT LD50 > 2000 mg/kg (calculated) DERMAL RAT LD50 > 4000mg/kg (calculated) Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Vapour concentrations above recommended exposure levels might be irritating to eyes and the respiratory tract.
Sensitisation	May cause sensitisation of susceptible persons by skin contact.
Repeated or prolonged exposure	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and 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 permethrin and tetramethrin)		

IMO

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

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IATA-DGR

UN-No 3082
Class 9
packaging 914

Packing group III
Sub-risks -

15. REGULATORY INFORMATION

Symbol(s):	Xn - Harmful; N - Dangerous for the environment 
R-phrases(s)	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed.
S-phrases(s)	To avoid risks to man and the environment, comply with the instructions for use. S23 - Do not breathe fumes/vapour/spray. S24 - Avoid contact with the skin. S36/37/39 - Wear suitable protective clothing, 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. 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	R20/22 - Harmful by inhalation and if swallowed. R43 - May cause sensitization by skin contact. R50/53 - Very 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 No.: 2. Changes to Section 2. Changes in classification of piperonyl butoxide.