

Product Safety Data Sheet

Vulcan P RFU
PYRETHROID INSECTICIDE READY-FOR-USE SOLVENT-BASED

HSE No. 7437

1. Identification of the substance, its preparation, and the supplying company.

Product Name : Vulcan P RFU
Product Code : VPRFU
Intended Use : Space Treatment and Residual solvent-based ready-for-use insecticide
Supplier : PelGar International Ltd., Peak Centre, Liphook. Hants GU30 7TN. UK.
Telephone & Fax : Tel 44(0) 1428 722 250 Fax 44(0) 1428 722 811

2. Composition and information on the ingredients.

Composition : 0.25 % w/w permethrin
0.125 % w/w tetramethrin

Common Name	Classification	CAS No.	Symbol	% w/w (w/v)
Permethrin		52645-53-1		0.25
Tetramethrin		7696-12-0		0.125

3. Hazards Identification

Hazard Classification for supply and use -

Health Hazards: Combustible Liquid. Oil mists may be formed

HARMFUL, MAY CAUSE LUNG DAMAGE IF SWALLOWED



4. First Aid Measures

Ingestion : If swallowed, wash out mouth with water. Large quantities may cause nausea and diarrhoea. Make the victim drink plenty of water and take the victim to a doctor immediately and show him this information.

Do not induce vomiting.

Skin Contact : Remove contaminated clothing. Wash exposed areas of skin immediately with water and as soon as possible with soap and water. Contaminated clothing should be washed and dried before re-issue. Prolonged contact may cause irritation.

Eye Contact : Hold eye(s) open and then irrigate with copious amounts of warm water for at least 10 minutes. Obtain medical advice immediately.

Inhalation : May cause irritation of eyes, nose and throat. Remove from exposure, rest and keep warm. Obtain medical advice immediately as a precaution.

Further Medical treatment:

Gastric lavage may be effective when performed within 4 hours of ingestion.

Aspiration of this material into the lungs should be avoided owing to the risk of pulmonary oedema.

Symptomatic treatment and supportive therapy as indicated.

5. Fire Fighting Measures.

This material is **FLAMMABLE**

Keep fire exposed container cool by spraying with water.

Self-contained breathing apparatus should be worn by fire-fighting personnel. Avoid run-off into water courses and contain run-off with temporary earth barriers or with other chemical sorptives.

Extinguishing Media : Do not use water-jets to extinguish fires or disperse spilt product. Use carbon dioxide, dry powder, water fog or sand or earth for small fires. Use alcohol foam or water mist for large fires. Keep containers cool by spraying with water.

6. Accidental release measures.

Extinguish any naked flames or sources of ignition. Suitable protective clothing should be worn during removal of spills. Eye protection, chemically resistant gloves, boots and coveralls should be worn. Respiratory protection equipment should be used to provide protection against vapours. Spillages should be covered with moist sand, soil or sawdust, and then transferred to a suitable container for disposal. Wash the contaminated area with water, or detergent and water, taking care to prevent the washings from entering surface water drains.

Spillages or uncontrolled discharges into water courses must be notified to the appropriate Regulatory Authority or to the National River Authority.

7. Handling and Storage

Handling : Product must be handled in a safe manner, keep in tightly closed, labelled containers. No smoking, naked flames, hot elements or other ignition sources. Read the label before use, wear the recommended personal protective clothing and avoid contact with skin or eyes. Do not smoke drink or eat whilst using the product. Wash hands and face before eating, drinking or smoking.

Storage : Store in original container under cool and dry conditions in a secure (lockable), well ventilated place, inaccessible to children and away from foodstuffs, and animal feedstuffs.

Physically and chemically stable for at least two years when stored un-opened at ambient temperatures in the original sales packs.

8. Exposure controls and personal protection

When using this product refer to the label for details.

Occupational Exposure Limit

	Long-term Exposure Limit (8 hr TWA reference period)		Short-term exposure Limit (15 minute reference period)	
	ppm	mg m ⁻³	ppm	mg m ⁻³
Permethrin		2.5		
Odourless Kerosene		5		10

9. Physical and Chemical properties

Form	:	Liquid
Colour	:	Straw/light yellow
Odour	:	Slightly aromatic
pH	:	Not applicable
B.Pt (Deg. C)	:	200-250 ° C
M. Pt. (Deg. C)	:	Not available
Auto Ignition Temp (Deg. C)	:	>200°C
Flash Point	:	>70°C
Explosive Limits	:	0.6-8.0 %
Oxidising Properties	:	Not applicable
Vapour Pressure (mm Hg)	:	0.5 mBar
Solubility (Water)	:	Immiscible @ 20 ° C
Viscosity	:	c. 1.50 cSt
Specific Gravity	:	0.8

10. Stability and Reactivity

Hazardous Decomposition Products	:	Combustion or thermal decomposition will evolve toxic and irritant vapours. May react with strong oxidising agents.
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11. Toxicological Information

This health hazard assessment is based on the technical grade material.

Ingestion	:	Oral Median Lethal Dose for the technical permethrin is c. 500 in corn oil. Oral Median Lethal Dose for the technical tetramethrin is > 5000 in corn oil Oral Median Lethal Dose for the kerosene is > 5000 Calculated MLD for this product is therefore c. 5,000 mg/kg (rat). Ingestion may cause vomiting and nausea, aspiration of small amounts into the lungs may cause bronchopneumonia or pulmonary oedema.
Skin Contact	:	Dermal Median Lethal Dose > 4000 mg/kg (rat)
Eye Contact	:	Unlikely to present a hazard during normal use.
Inhalation	:	Inhalation may cause headaches, dizziness, anaesthesia and other systemic effects. Vapour concentrations above the OEL (2,000 mg/m ³) are irritating to eyes and respiratory tract.

12. Ecological Information

Toxicity	:	Harmful to fish and other aquatic wildlife. Toxic to bees.
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13. Disposal Considerations

Product : Do not contaminate ponds, waterways or ditches with product or empty packs.
 Pack : Dispose of product and empty packs according to Local Authority and National requirements. For further guidance read the “Code of Practice for the Safe Use of Pesticides on Farms and Holdings” available from HMSO

14. Transport Information

Not Classified as Dangerous for Conveyance

15. Regulatory Information

This substance is covered by the Control of Pesticides Regulations (1986). It has therefore been labelled in accordance with these regulations.

User’s should ensure that they comply with any relevant local, state or national legislation.

EEC Classification	:	Under the Classification, Packaging and Labelling of Dangerous Substances Regulations (1984), this material is not dangerous for conveyance.
Hazard Symbol	:	HARMFUL
Risk Phrases		R10 Flammable liquid, keep away from naked flame and other sources of ignition
		R57 Toxic to bees
		R65 HARMFUL : May cause lung damage if swallowed
Safety Phrases		S2 Keep out of reach of children.
		S13 Keep away from food, drink and animal feeding stuffs.
		S20/21 When using, do not eat, drink or smoke.
		S23 Do not breathe vapours or spray mist.
		S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S37/39 Wear suitable gloves and eye/face protection.
		S46 If swallowed, seek medical advice immediately and show the label.
		S56 Dispose of this material and its container to hazardous or special waste collection point

16. **If you require any further information please contact PelGar International Ltd.**